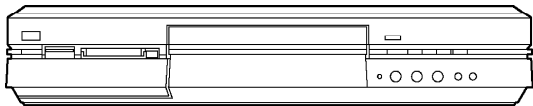


ORDER NO.DSD0304007C1
B24

Service Manual

DVD Video Recorder
DMR-E60PP
Colour
(S).....Silver Type



SPECIFICATIONS

Specifications

Power supply:	AC120 V, 60 Hz
Power consumption:	28 W
Recording system:	DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)
Optical pick-up:	System with 1 lens, 2 integration units (662 nm wavelength for DVDs, 790 nm wavelength for CDs)
Recordable discs:	12 cm 4.7 GB DVD-RAM discs 12 cm 9.4 GB DVD-RAM discs 8 cm 2.8 GB DVD-RAM discs 12 cm 4.7 GB DVD-R discs 8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)
Recording time:	Max. 6 hours (using 4.7 GB disc) XP: 60 minutes SP: 120 minutes LP: 240 minutes EP: 360 minutes
Region number:	Region No.1

Discs played:	12 cm 4.7 GB DVD-RAM discs 12 cm 9.4 GB DVD-RAM discs 8 cm 2.8 GB DVD-RAM discs 12 cm 4.7 GB DVD-R discs 8 cm 1.4 GB DVD-R discs (for General Ver. 2.0) DVD-VIDEO discs CD-Audiodiscs (CD-DA) Video CD discs DVD Audio CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs)
PC Card Slot:	PC Card Typell
Compatible Media:	A PC Card adaptor conforming to PC Card Standards ATA Flash PC Card, PC Card Adaptor (SD memory Card, MultiMedia Card, Compact Flash, Smart Media, Memory Stick, Dpicture card, Microdrive)
Format:	FAT12, FAT16,
Image Format:	JPEG DCF (Design rule for camera file System) (sub sampling 4:2:2, 4:2:0) TIFF (Uncompressed RGB chunky) DPOF Compatible Number of Pixels 320×240-6144×4096
Thawing Time:	Approx. 7sec (2Mpixels JPEG)
Video system	
TV system:	NTSC system, 525 lines, 60 fields
Recording system:	MPEG2 (Hybrid VBR)
Input:	LINE (pin jack) ×3, 1.0 Vp-p; 75 Ω S connector ×3 Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω
Output:	LINE (pin jack) ×2, 1.0 Vp-p; 75 Ω S connector ×2 Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω
Component video output (480p/480i):	Y: 1.0 Vp-p; 75 Ω PB : 0.7 Vp-p; 75 Ω PR : 0.7 Vp-p; 75 Ω
D-connector output:	Not provided

Antenna reception input:	TV Channel: 2ch-69ch, 75 Ω CATV Channel: 1ch-125ch, 75 Ω
RF converter output:	Not provided
Audio system	
Recording system:	Dolby Digital (XP/SP/LP/EP) LINEAR PCM (XP mode only)
Input:	LINE (pin jack) $\times 3$ Reference input: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Input impedance: 47 k Ω
Output:	LINE (pin jack) $\times 2$ Reference output: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Output impedance: 1 k Ω (Load impedance: 10 k Ω)
Number of channels:	Recording: 2 channels Playback: 2 channels
Other input/output connectors:	Digital audio optical output connector (PCM, Dolby Digital, DTS)
Dimensions:	Approx. 430 (W) $\times$ 79 (H) $\times$ 283 (D) mm [Approx. 16.15 /16 " (W) $\times$ 3.1 /8 " (H) $\times$ 11.13 /16 " (D)] (excluding protrusions)
Mass:	Approx. 3.9 kg (8.58 lbs)
Operating temperature range:	5 $^{\circ}$ C-40 $^{\circ}$ C (41 $^{\circ}$ F-104 $^{\circ}$ F)
Operating humidity range:	10 %-80 % RH (no condensation)
Clock unit:	Quartz-controlled 12-hour digital display
LASER Specification	
Class LASER Product	
Wave length:	775-815 nm 655-666 nm
Laser power:	No hazardous radiation is emitted with the safety protection.
Power consumption in standby mode:	
approx. 3.2 W	
DV Input:	IEEE 1394 Standard, 4pin
Solder:	
This model uses lead free solder (PbF).	
Notes:	
Mass and dimensions are approximate.	
Specifications are subject to change without notice.	
Notes:	
The part of DVD RAM Drive (VXY1772) is listed separately.	
Please refer to ORDER NO. RAM0301002C0.	

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. SAFETY PRECAUTIONS

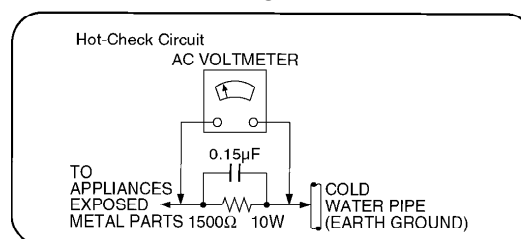
1.1. GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{M } \Omega$ and $5.2\text{M } \Omega$. / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Figure 1



1.1.2. LEAKAGE CURRENT HOT CHECK (See [Figure 1](#) .)

- 1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
- 2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in [Figure 1](#) .**
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
- 4. Check each exposed metallic part, and measure the voltage at each point.**
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

2. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
- 2. After removing an electrical assembly equipped with ES devices,**

place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by Δ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

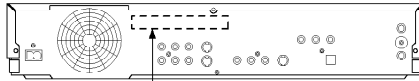
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wave length: 775-815 nm/655-666 nm

Maximum output radiation power from pickup: 100 μ W/VDE

Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.



Product complies with DHHS
Rules 21 CFR Subchapter J in
effect at date of manufacture.
Matsushita Electric Industrial
Co., Ltd.
Kadoma, Osaka, Japan

ACHTUNG:

Dieses Produkt enthält eine Lasereinheit.

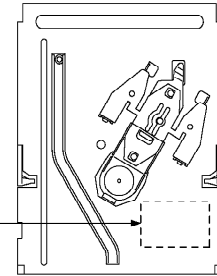
Im eingeschalteten Zustand wird unsichtbare
Laserstrahlung von der Lasereinheit abgestrahlt.

Wellenlänge: 775-815 nm/655-666 nm

Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE

Die Strahlungen der Lasereinheit ungefährlich, wenn
folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Lasereinheit gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinheit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. ÉVITEZ L'EXPOSITION AU RAYONNEMENT LASER.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING	- SÄRLIG OCH USÄRLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. SE TRÅLINGEN I ÖGEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNEES. UNNGÅ EKSPONERING FOR STRÅLING.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRALUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEN STRALUNG ANSEHEN.
注意	- 打开所有可见及不可见激光辐射。避免激光辐射。 注意：打开所有可见及不可见激光辐射。避免激光辐射。 PQL S0233

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN
THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.
2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 15.2.1. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2032-1GUF Manufactured by Panasonic.)

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

5. Handling the Lead-free Solder

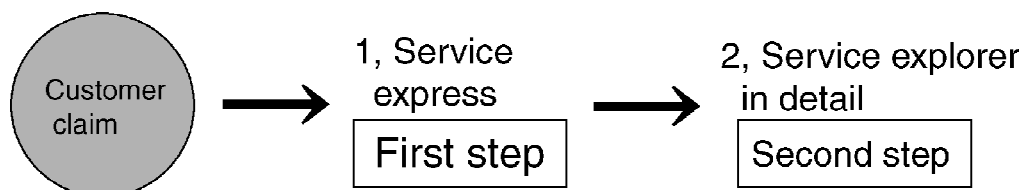
5.1. About lead free solder (PbF)

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Service Explorer

The Service Explorer provides information about all possible causes based on the symptoms and gives step by step instructions making parts. It consists of two parts, based on applications: the first is the "Service Explorer Express" and the second is "Service Explorer in Detail".



1. For details about the service / test mode setting mentioned in the description, refer to the "List of various modes".

- **Service mode setting:** While the power is off, press TIME SLIP, STOP, and OPEN / CLOSE simultaneously for five seconds.
- **Process mode 1 setting:** While the power is off, press

SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.

2. For disassembly and replacement procedures, refer to the “Assembling and Disassembling”.

6.1. Service Explorer Express

The following steps allow you to check each block separately (Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).

Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control.

Conditions: Nothing special.

<Symptom1>		<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
					When operation is OK	When operation is not OK
Does not operate.	error code display		Defective Digital P.C.B.	1. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
			Defective RAM drive	2. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/Power/Front P.C.B..
		「U99」display	Problem with system operation	1. Press the Power switch for 10 seconds, and reset. Then, recheck the operation.	OK	Go to the next step.
			Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
			Defective RAM drive	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/Power/Front P.C.B..
		「UNSUPPORT」display	Unsupported disc	1. Insert a spare Panasonic DVD-RAM, and check whether the RAM is recognized.	OK	Go to the next step.
		「NO READ」display 「HARDERR」display	Flawed or dirty disc	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
			RAM drive error	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective RAM drive
		「U14」display	The temperature inside the RAM drive is too high. * Cannot operate for 30 minutes.	1. Check whether the fan motor is blocked or the room temperature is abnormally high.	Go to the next step.	Establish a normal environment and go to the next step.
				2. Leave it for two hours at a room temperature of 25°C, and then recheck it.	OK	Go to the next step.
				3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Digital P.C.B.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
				When operation is OK	When operation is not OK
Remote control key check					
Does not operate.	[1] CHK REM-OTE display	The remote control code is different from the main unit code.	1. Select [Remote control code] of the initial setting (when [1] is displayed, press [1] and [ENTER]). 2. Press any key, and check the operation.	OK	Replace the remote control.
	Only specific keys do not operate, or none of the keys operate	The DVD or TV switch setting is wrong.	1. Move the switch to the DVD side, and check the operation.	OK	Go to the next step.
		Battery insertion direction	2. Check the battery polarity.	OK	Go to the next step.
		Dead batteries	3. Replace the batteries with new ones.	Dead batteries	Go to the next step.
		Defective remote control	4. Replace the remote control with a new one.	Defective remote control	Go to the next step.
		Defective Front P.C.B. (defective light detecting section)	5. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.
		Poor connection between the Front and Main P.C.B.s	6. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B. (including the connector)	Go to the next step.
		Defective Main PCB (timer)	7. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--
Defective Power P.C.B.					
Main unit key check					
Only specific keys do not operate, or none of the keys operate	Poorly fit with the front panel	1. Check the operation of each key in the front inspection mode (*). *: Transfer the signals from the remote control keys [5] and [4] in the service mode setting.	Go to the next step.	Poorly fit with the front panel or damaged keypad	
	Defective Front P.C.B.	2. Replace the Front P.C.B. or check and repair.	Defective Front P.C.B.	Go to the next step.	
	Poor connection between the front and Main P.C.B.s	3. Replace the Main P.C.B. or check and repair.	Defective Main P.C.B. (including the connector)	Go to the next step.	
	Defective Main P.C.B. (timer)	4. Replace the Power P.C.B. or check and repair.	Defective Power P.C.B.	--	
	Defective Power P.C.B.				
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
				When operation is OK	When operation is not OK
Poor picture and sound		Defective Main P.C.B.	1. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main P.C.B. is OK.)	Defective Main P.C.B.
		Defective RAM drive	2. Move the digital extension cable switch to [Digital], transfer the signals from the remote control keys [1] and [3](EE2 mode) in the service mode setting.	Defective RAM drive	Go to the next step.

6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.

Conditions: Nothing special.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
				When operation is OK	When operation is not OK
Power turns off immediately after being turned on.	[H01] display	The fan does not run. * The signals from the remote control keys [0] and [1] are transferred in the service mode setting.	1. Replace the fan motor. 2. Replace the Main P.C.B. or check the timer section and repair it. 3. Replace the Power P.C.B.	Defective fan motor Go to the next step.	Go to the next step.
	[F01] display	RAM drive error * The signals from the remote control keys [0] and [1] are transferred in the service mode setting.	1. Replace the RAM drive, and set the region in the test mode. 2. Replace the Digital P.C.B.	Defective Main P.C.B. (timer section) Go to the next step.	Defective Power P.C.B. --
Power turns off immediately after the circle appears.		Defective Digital P.C.B.	1. Replace the Digital P.C.B.	Defective RAM drive Go to the next step.	Defective Digital P.C.B. Go to the next step.
The circle does not disappear		Defective RAM drive	2. Replace the RAM drive, and set the region in the test mode.	Defective Digital P.C.B. Go to the next step.	Defective RAM drive --
Not reproduced (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting. 2. Recheck the operation in the 24-hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds. 3. Replace the digital PCB, and start the 24-hour aging mode again. 4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
				OK	Go to the next step.
				Defective Digital P.C.B.	Go to the next step.
				Defective RAM drive	--

6.2.2. Poor Pictures

Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.

Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
Noise in the picture and sound. No picture color.		The signal is too weak.	1. Confirm whether connecting through VCR.	Go to the next step.	Connect to recorder directly.
		The tuner signal reception is too weak.	2. Reconnect the RF cable to TV, and check the picture and sound.	Go to the next step.	Poor signal reception
		The RF cable is badly damaged.	3. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		The AV cable is badly damaged.	4. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B..	5. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	6. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
No picture or sound is output.		Defective RF cable	1. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		Defective AV cable	2. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B.	3. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	4. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
Picture and sound are not synchronized		Poor tuner signal reception.	1. Select a different broadcast channel, and check.	Poor signal reception	Go to the next step.
		Defective Digital P.C.B..	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
Block noise		Defective RAM drive and Digital P.C.B..	1. Replace the RAM drive, and set the region in the test mode.	(Auto recording and playback) Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B..	(Auto recording and playback) Defective Digital P.C.B.	--
Not reproduced (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24-hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.	OK	Go to the next step.
			3. Replace the Digital PCB, and start the 24-hour aging mode again.	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again.	Defective RAM drive	--

6.2.3. Some defective functions

Items needed: PC card adaptor (media), Digital P.C.B.

conditions: Nothing special

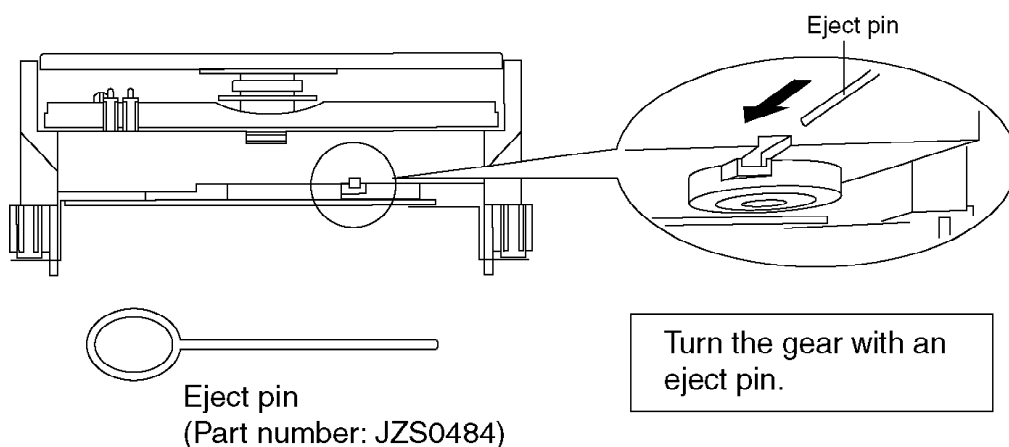
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
				When operation is OK	When operation is not NG
The PC card does not operate		Poor seating of the PC card	1. Check whether [CARD] appears on the FL display	OK	Go to the next step.
		Defective PC card P.C.B.	2. Insert recordable media and check the operation in the PC card inspection mode(*). *Transfer the signals from the remote control keys [7] and [1] in the service mode setting.	OK	Go to the next step.
		Poor connection with the PC card	3. Insert recorded media and check the operation in the JPEG decode inspection mode(*). *Transfer the signals from the remote control keys [7] and [2] in the service mode setting.	OK	Go to the next step.
		Defective Digital P.C.B.	4. Remove the front panel, and make sure that the mechanical section and connector on the PC card slot are connected. 5. Replace the Digital P.C.B.	OK	Go to the next step.
				Defective Digital P.C.B.	---

6.2.4. Other

Items needed: Digital P.C.B., HDD.

Conditions: Nothing special.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
				When operation is OK	When operation is not OK
No media can be played.		Erasing the AV ID	1. When the tray is open, press SKIP(R) and SKIP(F) simultaneously for five seconds.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
The disc cannot be removed. (Sales demonstration LOCK)		Sales demonstration LOCK	1. Press the OPEN or CLOSE button, and make sure that the [LOCK] display is brought up. Then, when the power is on, press STOP and POWER simultaneously for five seconds.	If [UNLOCK] appears and the tray opens, it is OK.	---
The disc cannot be removed. (Malfunction)		The disc is stuck because the deck is not working properly.	1. When the power is off, press STOP and CH_UP simultaneously for five seconds.	If the tray opens, it is OK.	Go to the next step.
			2. Remove the front panel, remove the disk using an eject pin. (Refer to the following drawing.)	If the disc can be ejected, it is OK	Go to the next step.



<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure>	
				When operation is OK	When operation is not OK
A timer program has not been created.	[F12] display	Timer program error (defective Main P.C.B.)	1. Replace the Main P.C.B. or check and repair. Check the timer program operation using the timer section.	Defective Main P.C.B.	---
* Transfer the signals from the remote control keys [0] and [1] in the service test setting.				OK	---

7. Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be recognized.
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the picture or sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the picture or sound or operation.
4	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the picture or sound or operation.
5	In case of that the trouble is caused by SD/PC card and/or DV terminal.	1) SD/PC card: Check to be able to display and copy the picture. 2) DV terminal: Check to be able to record and playback DVC.
6	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears in the display.
7	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in the display. After checking it, turn the power off.
8	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded. It is recorded on the Digital P.C.B..	Make sure that [TEST L1] appears in the display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

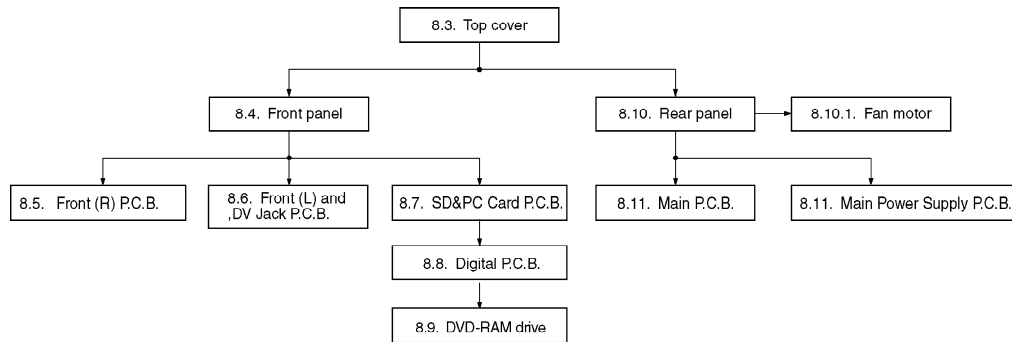
Item	Contents	Item	Contents	Check
Picture		Sound		
	Block noise		Distorted sound	
	Crosscut noise		noise (static, background noise, etc.)	
	Dot noise		The sound level is too low.	
	Picture disruption		The sound level is too high.	
	Not bright enough		The sound level changes.	
	Too bright			
	Flickering color			
	Color fading			

8. Assembling and Disassembling

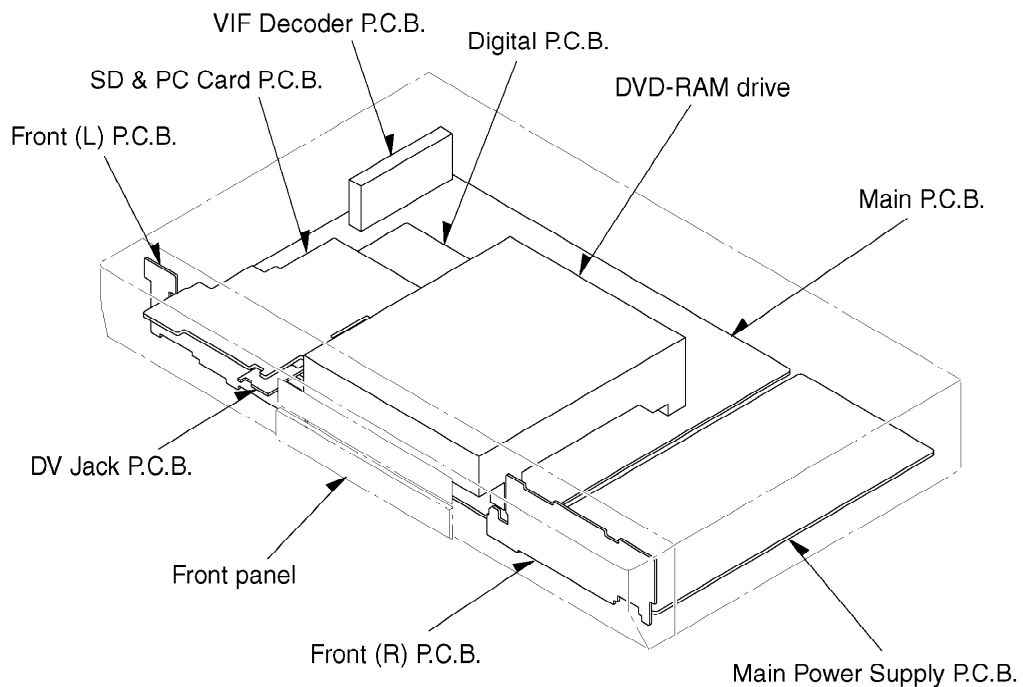
8.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart below.

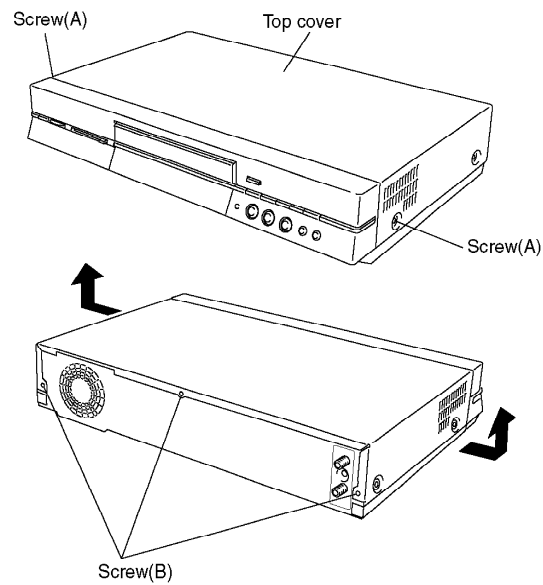


8.2. P.C.B. Positions



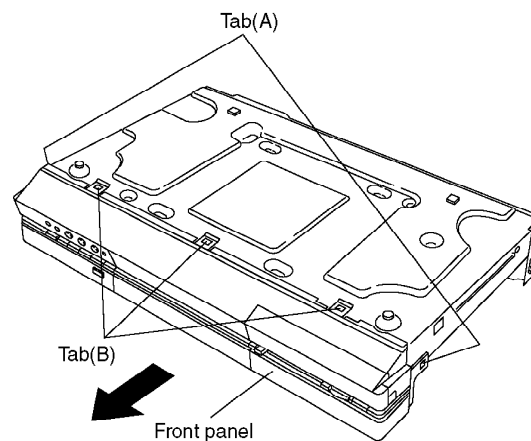
8.3. The Top Cover

1. Remove the 2 screws (A) and 3 screws (B).
2. Open the both ends at the front side of the Top cover a bit and lift the Top cover in the direction of the arrows.

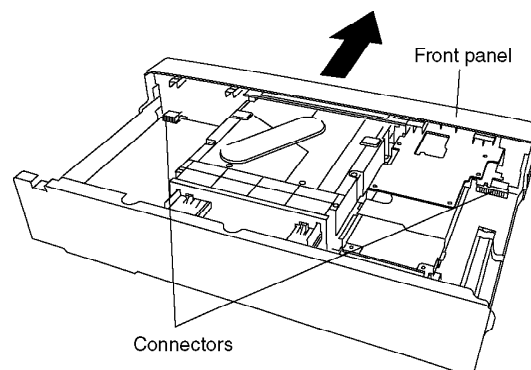


8.4. The Front panel

1. Remove the 2 tab (A) and 3 tab (B) in this order. (The tab (A) and the tab (B) should be removed at the same time, respectively.)

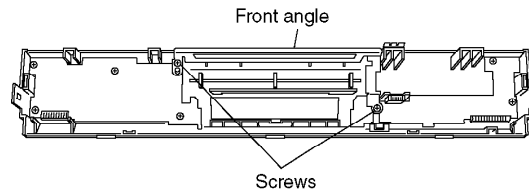


2. Move the front panel to your side slowly and remove it.

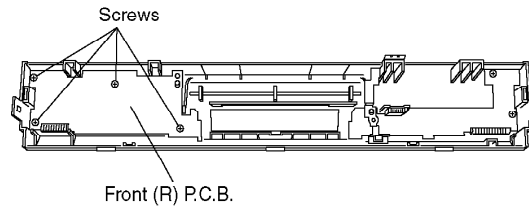


8.5. The Front (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle with Earth Plate.

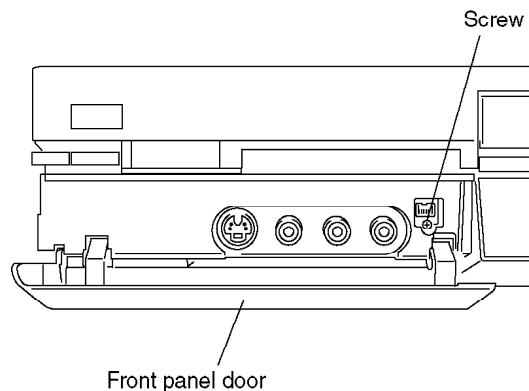


2. Remove the 4 screws and remove the Front (R) P.C.B.

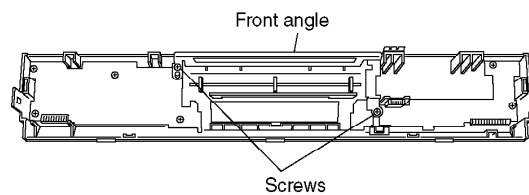


8.6. The Front (L) and DV Jack P.C.B.

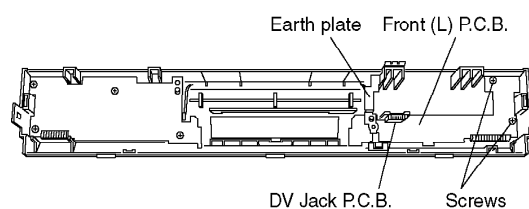
1. Remove 1 screw inside of the Front panel door with a precision screw driver.



2. Remove the 2 screws and remove the Front angle with Earth Plate.

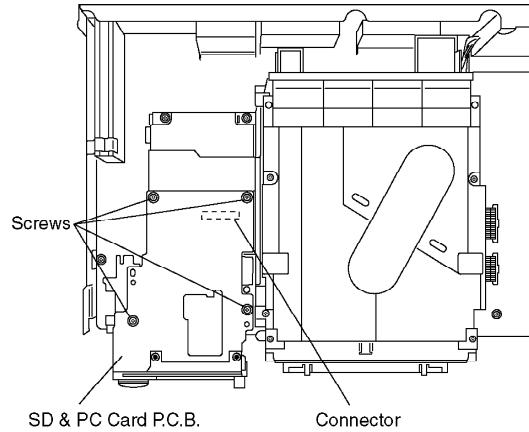


3. Remove the 2 screws with Earth plate and remove the Front (L) and DV Jack P.C.B.



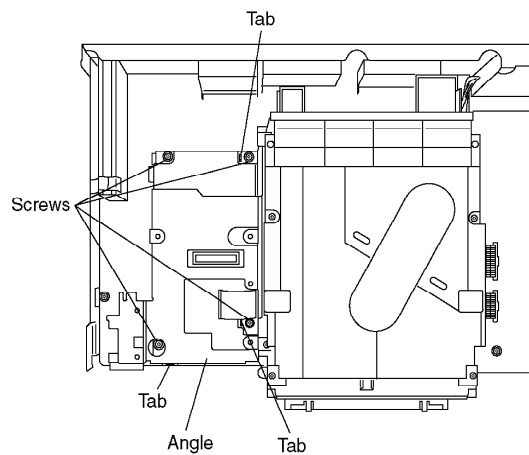
8.7. The SD & PC card P.C.B.

1. Remove the 4 screws.
2. Pull out the SD & PC card P.C.B. vertically.



8.8. The Digital P.C.B.

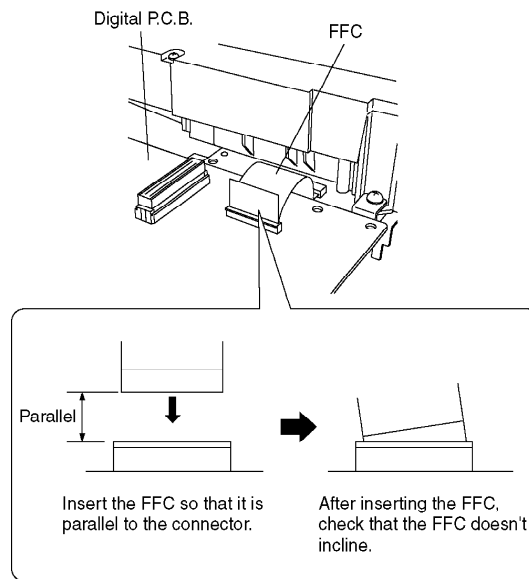
1. Remove the 4 screws and 3 tabs and remove the angle.



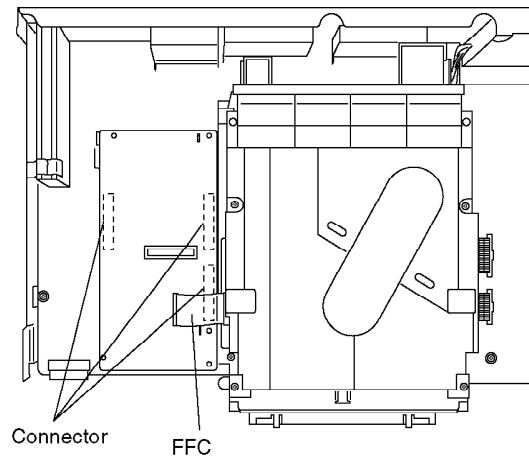
2. Remove the FFC.

CAUTION:

When replacing Digital P.C.B., pay attention as below.



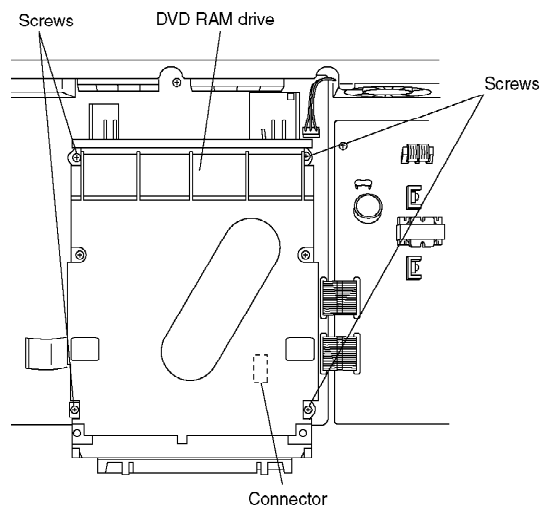
3. Pull out the Digital P.C.B. vertically with paying attention to 3 Connectors.



8.9. The DVD-RAM Drive

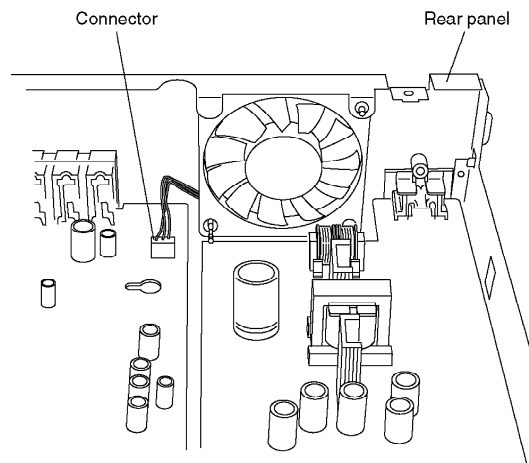
1. Remove the 4 screws.

2. Pull out the DVD-RAM Drive vertically and remove the connector.



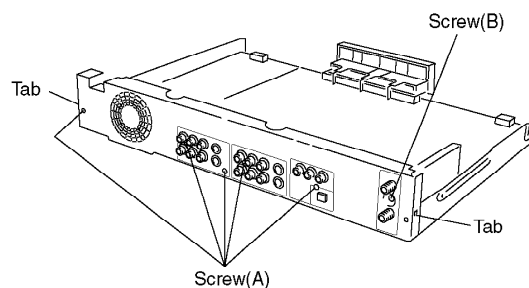
8.10. The Rear panel

1. Remove the Fan Motor connector.



2. Remove the 5 screws (A) and 1 screw (B).

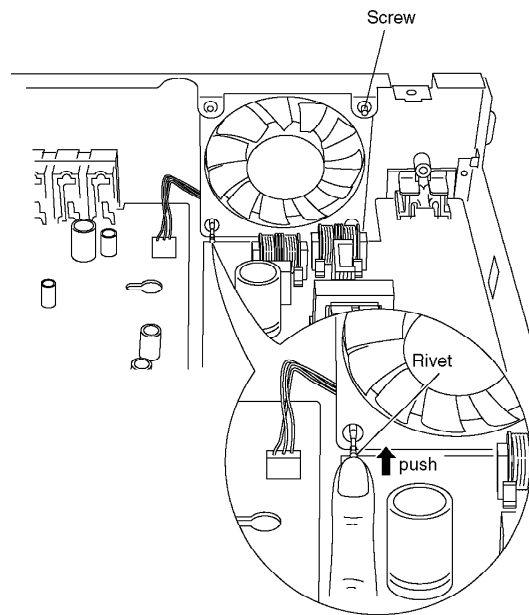
3. Remove the 2 tabs and remove the Rear panel.



8.10.1. In case of removing Fan motor from Rear panel

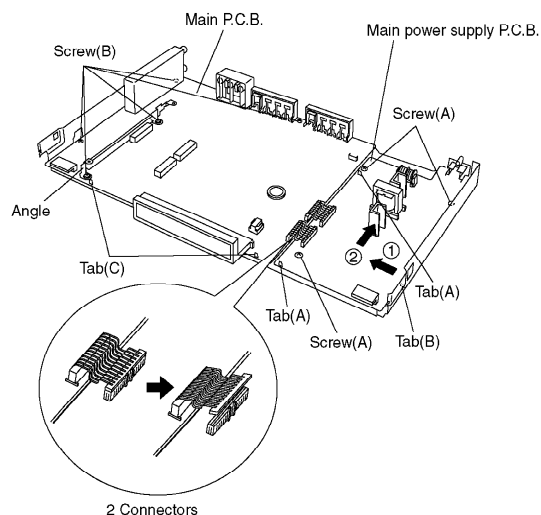
1. Remove a screw.

2. Push tip of rivet to remove it.



8.11. The Main Power Supply P.C.B. and Main P.C.B.

1. Remove the 2 connectors.
2. Remove the 3 screws (A) and 2 tab (A).
3. Remove the Main Power Supply P.C.B and tab (B) , pull out it in the direction of the arrow. ① to ②.
4. Remove the 3 screws (B) and 2 tab (C).
5. Remove the Main P.C.B.



9. Service Positions

9.1. Checking procedure

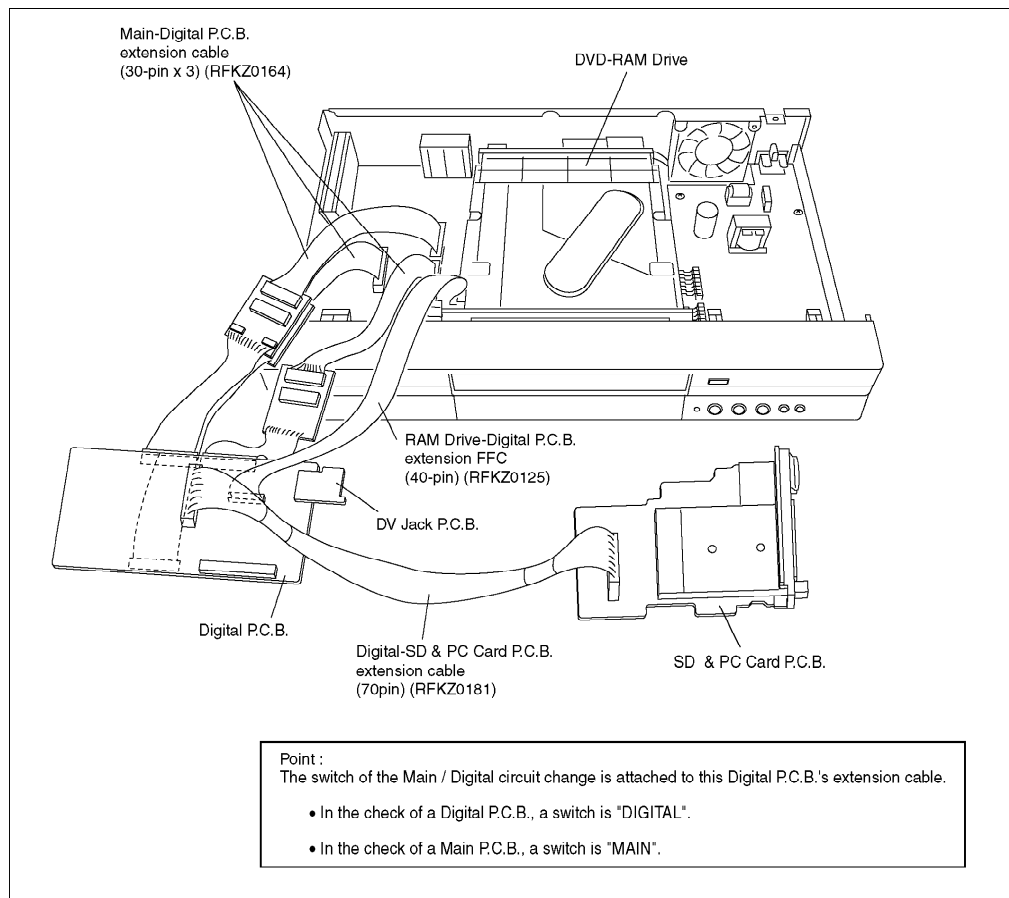
Note:

For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B. and SD & PC Card P.C.B.

- 1. Remove the Top Cover.**
- 2. Remove the SD & PC Card P.C.B. and angle.**
- 3. Remove the FFC (RAM Drive - Digital P.C.B.).**
- 4. Remove the Digital P.C.B.**
- 5. Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.**
- 6. Use the extension FFC (RFKZ0125) to connect the RAM Drive and Digital P.C.B.**
- 7. Use the extension cable (RFKZ0181) to connect the Digital P.C.B. and SD & PC Card P.C.B.**
- 8. Connect the Digital P.C.B. and DV Jack P.C.B.**

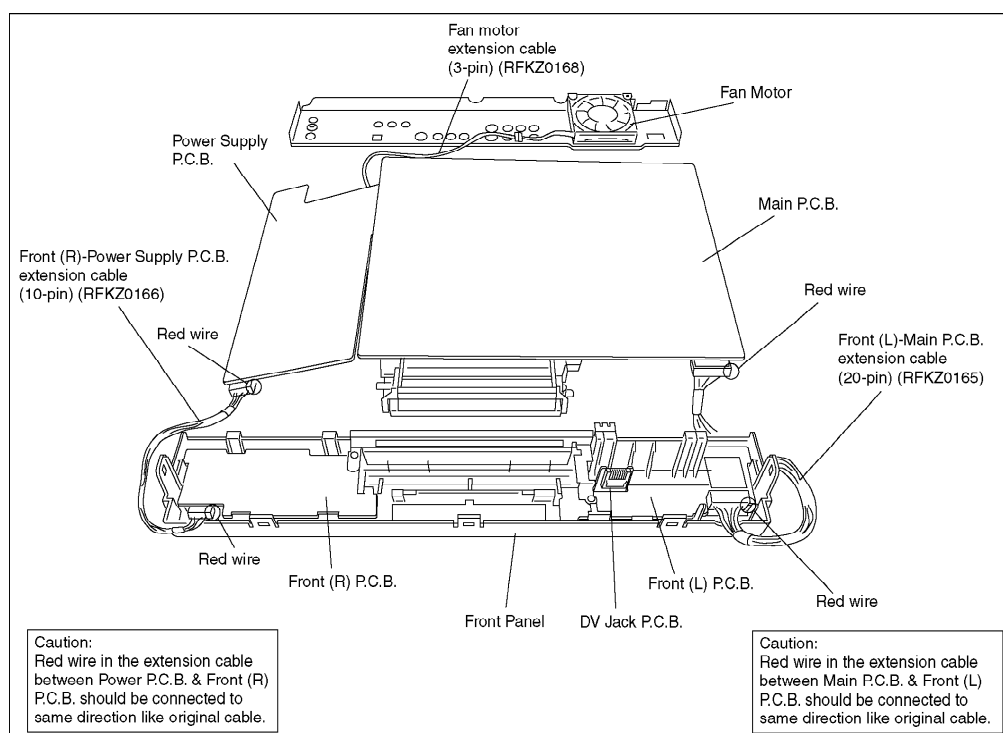
Service tools	
Extension FFC (RAM Drive - Digital P.C.B.)	RFKZ0125 (40Pin)
Extension Cable (Main P.C.B. - Digital P.C.B.)	RFKZ0164 (30Pin x 3)
Extension Cable (Digital P.C.B. SD & PC Card P.C.B.)	RFKZ0181 (70pin)



9.3. Checking the Main P.C.B.

1. Remove the Top Cover.
2. Remove the Front Panel.
3. Remove the Rear Panel.
4. Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive.
5. Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.
6. Connect the Power Supply P.C.B., Main P.C.B. and RAM Drive.
7. Install to the service positions views.
8. Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front P.C.B. (L).
9. Use the extension cable (RFKZ0166) to connect the Power supply P.C.B. and Front P.C.B. (R).

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	RFKZ0165 (20Pin)
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	RFKZ0166 (10Pin)
Extension Cable (Fan motor)	RFKZ0168 (3Pin)

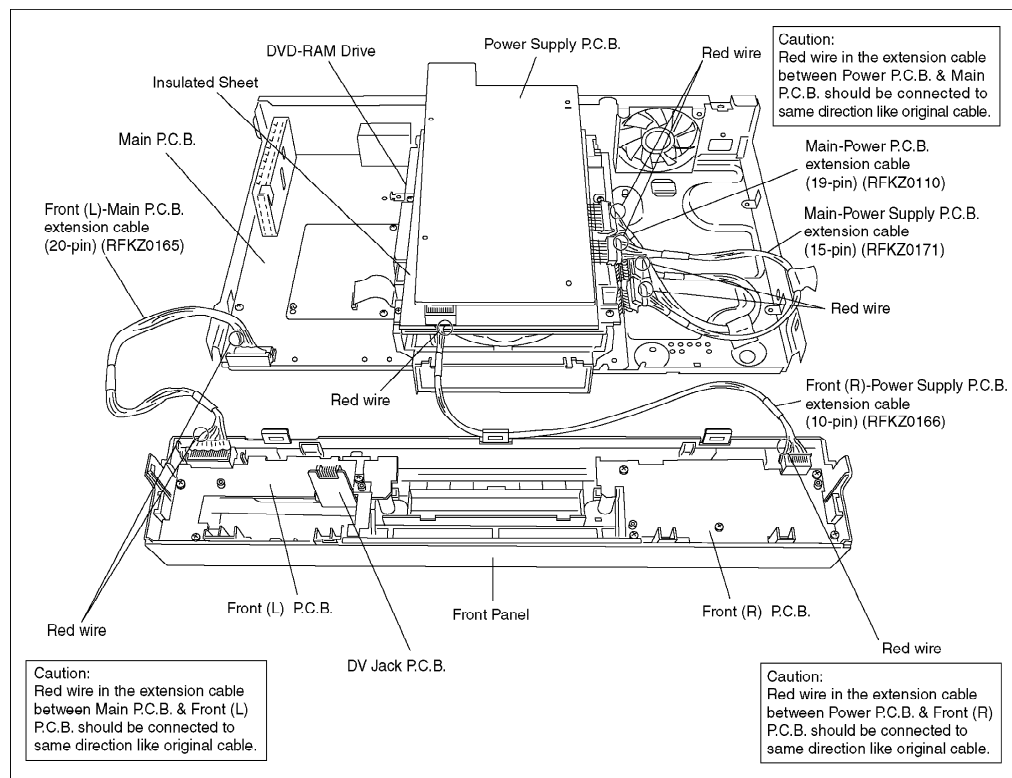


9.4. Checking the Power Supply P.C.B.

1. Remove the Top Cover.
2. Remove the Front Panel.
3. Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..
4. Remove the Power Supply P.C.B., fix it on the insulation sheet.
5. Use the extension cables (RFKZ0170,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..
6. Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.

7. Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	RFKZ0165 (20-pin)
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	RFKZ0166 (10-pin)
Extension Cable (Main P.C.B. - Power supply P.C.B.)	RFKZ0170 (19-pin)
Extension Cable (Main P.C.B. - Power supply P.C.B.)	RFKZ0171 (15-pin)



10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD	To turn power on or off on the DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/Show view/VIDEO Plus+
AV	To set AV input on the TV.
Numeric buttons(10key)	To put each number for selecting each functions.
CANCEL	To cancel maker.
SKIP(Reverse)/ (Forward)	To skip chapter or marker position for reverse or forward direction.
STOP	To stop the recording or playback .
PAUSE	To still for playback or pause for recording.
DIRECT NAVIGATOR/ TOP MENU	<PROGRAMME NAVIGATION> To display menu for recoeded program.
	<TOP MENU> (For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
FUNCTIONS	To display function menu.
TIMER	To turn timer function on or off.
PROG/CHECK	To display timer porgram menu.
TV	To turn power on or off on the TV.
DVD/TV	To select DVD or Tv operation.
REC	To set the recording.
DIRECT TV REC	To immediately record present TV program that you are watching on the TV. * Scart cable must be connected with TV. * Q-link function must be installed in the TV.
CH UP/DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.

Each buttons name	Functions
SLOW/SEARCH	<SLOW> To set the slow mode during still.
	<SEARCH> To set the cue or review during playback.
PLAY/X1.3	<PLAY> To set playing back.
	<X1.3> To set the times 1.3 speed for playback by keep pressing playback button for more than 1 second.
PLAY LIST/ MENU	<PLAY LIST> To display play list.
	<MENU> (For only VCD or DVD-Video) To display menu on the VCD or DVD-Video.
RETURN	To return to previous condition.
MANUAL SKIP	To skip after 30seconds.
TIME SLIP	(HDD, RAM, DVD-R) To playback program being recorded by setting time duration for each 1minute during recording.
	(HDD, RAM, DVD-R) To playback recorded program by setting time duration for each 1minute.* During recording or playback, playback 30seconds previous by pressing the button.
REC MODE	To set recording speed.
F Rec	To frexible recording with best quality to caluculate recording rate within remaining recording time.
STATUS	To display product status, time status & present bit-rate.
INPUT SELECT	To set AV input on the DVD.
ERASE	To erase recorded program or playlist during playback.
AUDIO	To select audio with tuner input or playback sound.
FRAME (Reverse /Forward)	To set frame advance.

Each buttons name	Functions
POSITION MEMORY	To memorize STOP position for playing back again. * STOP position is erased by turning power off and opening tray.
MARKER	(DVD-RAM/-R)To put marker for making chapter.
AV LINK	To playback on the DVD and select AV1 mode on the TV automatically. * Scart cable must be connected with TV.
DISPLAY	To select disc,playback,picture & sound status.
OPEN/CLOSE	To open or close tray.
SETUP	To display SETUP menu.
DUBBING	To dub recorded program at HDD to DVD-RAM/-R during playback.
EXT LINK	To set EXT LINK mode to record automatically by detecting signal from external equipment.

10.2. Special modes at a glance

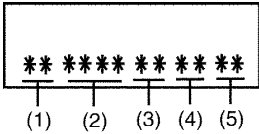
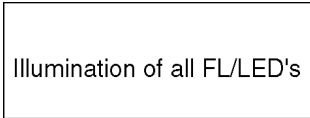
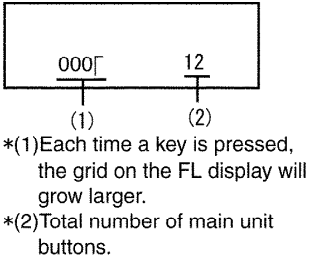
10.2.1. Service modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Clear item	Items 1-20 are cleared.	SERVICE MODE	[0] [0] while in service mod
Error code display	FL display of the last error code held by timer	F00 FL display of the error code (U/H/F)	[0] [1] while in service mod
ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ***** TIMER ***** DRIVE **** * Version display	[0] [2] while in service mod
White picture output	White picture output from AV decoder White picture (Chroma: 100%) Switching enabled by subcommand "I/P switch"	Initialization mode (Interlace)	[1] [1] while in service m
		WHIT I Progressive/ Interlace switched. WHIT P	[1] [4] while in white picture mode *I ← → P Toggle switched.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand "I/P switch"	Initialization mode (Interlace) MAGE I	[1] [2] while in service m
		Progressive/ Interlace switched MAGE P	[1] [4] while in Magenta pic mode *I ← → P Toggle switched.
RTSC return XP (A&V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz) EE2 I XP 48	[1] [3] while in service m
		Progressive/ Interlace switched. EE2 P XP 48	[1] [4] while in RTSC return mode *I ← → P Toggle switched.
		Audio 44.1kHz/ 48kHz switch EE2 I XP 44	[2] [4] while in RTSC retur mode *48k ← → 44.1k Toggle swi
I/P switching	"Interlace" and "Progressive" are switched. Initial setting is "Interlace". (This command is effective when performing 14 and 15.)	Initialization mode SERVICE I	[1] [4] while in service m *I ← → P Toggle switch
		Progressive SERVICE P	
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.	TIMER MUTE	[2] [1] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).	MAIN MUTE	[2] [2] while in service m
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB).	Initialization mode (Interlace) AUDIO 48	[2] [3] while in service m
		Audio 44.1kHz / 48kHz switched. AUDIO 44	[2] [4] while in white picture mode *48k ← → 44k Toggle switch
Laser use time display	To check laser use time of drive	LASER *** * (*)displays the time (in hours). * The last working time is incremented in both the DVD/CD Play and Record modes.	[4] [1] while in service m
RAM drive last error	RAM drive error code display. *For details about the drive error code, refer to the manual for the specific RAM drive.	*** ** (1) (2) (3) (4) (5) * (1)Sense key * (2)Additional sense code * (3)Host detail * (4)Access detail * (5)Mecha detail * This information is saved to EEPROM on the RAM drive.	[4] [2] while in service m
Laser error count	The number of times that a laser error has occurred due to a defective disc or defective drive is counted and displayed.	LASERERR * * (*)is the number of times a laser error occurred. * This information is saved to EEPROM on the RAM drive.	[4] [3] while in service m

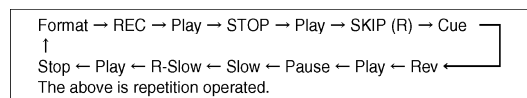
Item		FL display	Key operation
Mode name	Description		Remote controller ke
Factors which cause drive error	The disc condition is displayed when an error occurs.	 * (1)Sense key * (2)Additional sense code * (3)Host detail * (4)Access detail * (5)Mecha detail * This information is saved to EEPROM on the RAM drive.	[4] [4] while in service m
Disc manufacture ID	Display the manufacture's ID for a disc on which a drive error has occurred.	 The display example can be checked using the separate table.	[4] [5] while in service m
Illumination of all FL /LEDs	All FL and LEDs are lit up.		[5] [1] while in service m
S1 signal output	Forcibly superimpose the S1 signal (5V DC) on the EE chroma signal, and check the output on the S terminal.		[5] [2] while in service m
S2 signal output	Forcibly superimpose the S2 signal (2.2V DC) on the EE chroma signal, and check the output on the S terminal.		[5] [3] while in service m
Front connection inspection	Press all the main unit's buttons and check the connection with the Main P.C.B..	 * (1)Each time a key is pressed, the grid on the FL display will grow larger. * (2)Total number of main unit buttons.	[5] [4] while in service m
Tray OPEN/CLOSE	The RAM drive tray is opened and closed repeatedly.	 * FL display of the CYCLE count out.	[9] [1] while in service m * AC power should be turn to release this operatic

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	[9] [8] while in service m
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service m
PC card WRITE check	Check WRITE function using the media and PC card.	When the WRITE check is OK. CARD SUCCESS * If the WRITE check is negative, the SUCCES display section will read : [ERROR]. * Note : The image saved to media is erased.	Insert PC card, and press [1] keys in the service mod *Insert PC card while the p is off. *Check for [CARD] on the F display and contue the inspection.
PC card READ check	Check READ function using the media with image and PC card.	When the READ check is OK. JPEG TEST * The image saved to media is displayed. * If the READ check is negative, [NG] will be displayed after [TEST].	Insert PC card, and press [2] keys in the service mod *Insert PC card while the p is off. *Check for [CARD] on the F display and contue the inspection.

10.2.2. Other special modes

Item		FL display	Key operation
Mode name	Description		Remote controller key
Model	Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST AVI	When the power is off, press SKIP(R), TIME SLIP and OPEN/CLOSE simultaneously for five seconds.
Rating password	The audiovisual level setting password is canceled.	---	Press SKIP(R) and (F) with the power button open during Power ON.
Audiovisual ID cancel	The audiovisual level setting password is canceled.	---	(Remote control) Set the audiovisual limit level to "0" and set the ID number to "0".
Shop display LOCK cancel	Ejection of the disc is prohibited.-	Press OPEN/CLOSE button, FL display will be shown below. LOCK	(Main unit) Open the tray, and press SKIP(R) and SKIP(L) simultaneously for five seconds. Press the OPEN/CLOSE button and make sure that [LOCK] is displayed. Then, with the power on, press STOP and POWER simultaneously for five seconds.
Forced disc eject	Removing a disc that cannot be ejected.	---	When the power is off, press STOP and CH_UP simultaneously for five seconds.
Progressive initialization	The progressive setting is initialized.	---	In STOP(EE) mode, press CH_UP and CH_DOWN simultaneously for five seconds.
ATP initialization	The ATP setting is initialized.	---	In STOP(EE) mode, press STOP and TIME SLIP simultaneously for five seconds.
Aging	See the * Aging Description below.	---	When the power is off, press TIMEWARP + OPEN / CLOSE and CH_DOWN simultaneously for five seconds.

* Aging Description



10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	CHK REI
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71°C. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	U14 Displayed from the time of detection and while key entries are disabled after power-on (30 minutes).
U99	Hang-up	Displayed when microprocessor has hang-up.	U99 Remains displayed.
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	H01 Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	F00 Remains displayed.
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	F01 Remains displayed.

Display	Diagnosis	Description	FL display
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	F12 Remains displayed.
UNSUPPORTED	Unsupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	UNSUPPORTED
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	NO READ
HARD ERR	Drive error	The drive detected a hard error.	HARD ERR
RECOVER	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B. / RAM drive.	RECOVER

10.3. The information table of an error generating disk

10.3.1. Error generating disk type

(hexadecimal)	Disk type
00	DVD-ROM/Video
10	Audio-CD
20	2.6GB DVD-RAM
30	4.7GB DVD-RAM
40	DVD-R

10.3.2. Error generating disk state

(hexadecimal)	Contents			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	OK
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	OK
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	OK
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	OK
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	OK
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	OK
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	OK
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
1	MEI*****	DVD-R by Panasonic
2	PVC*****	DVD-R by Pioneer
3	MCC*****	DVD-R by MITSUBISHI
4	TDK*****	DVD-R by TDK
5	MXL*****	DVD-R by Maxell
6	MCI*****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

* Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.

Please make it reference as an example of a display.

11. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	
	ASI	AUDIO RF
	ASO	SERVO AMP INVERTED INPUT
	ASYNC	SERVO AMPOUTPUT
		AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR
	CBDO	VELOCITY
	CD	CAP. BLACK DROP OUT
	CDSCK	COMPACT DISC
	CDSRDATA	CD SERIAL DATA CLOCK
		CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOU	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ
	DMUTE	CLOCK
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLIF	
	DVD	DATA SLICE LOOP FILTER
		DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP
	FEO	INVERTED INPUT
	FG	FOCUS ERROR AMP OUTPUT
	FSC	FREQUENCY GENERATOR
	FSCK	FREQUENCY SUB CARRIER FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT IPFRAG IREF ISEL	IEC958 FORMAT DATA OUTPUT INTERPOLATION FLAG I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON LPC LRCK	LASER DIODE CONTROL LASER POWER CONTROL L CH/R CH DISTINCTION CLOCK
M	MA0~UP MCK MCKI MCLK MDATA MDQ0~UP MDQM MLD MPEG	MEMORY ADDRESS MEMORY CLOCK MEMORY CLOCK INPUT MEMORY SERIAL COMMAND CLOCK MEMORY SERIAL COMMAND DATA MEMORY DATA INPUT/OUTPUT MEMORY DATA I/O MASK MEMORYSERIAL COMMAND LOAD MOVING PICTURE EXPERTS GROUP
O	ODC OFTR OSCI OSCO OSD	OPTICAL DISC CONTROLLER OFF TRACKING OSCILLATOR INPUT OSCILLATOR OUTPUT ON SCREEN DISPLAY
P	P1~UP PCD PCK PDVD PEAK PLLCLK / PLLOK PWMCTL PWMDA PWMOA, B	PORT CD TRACKING PHASE DIFFERENCE PLL CLOCK DVD TRACKING PHASE DIFFERENCE CAP. FOR PEAK HOLD CHANNEL PLL CLOCK PLL LOCK PWM OUTPUT CONTROL PULSE WAVE MOTOR DRIVEA PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA

	SYSTEM CLOCK
INITIAL/LOGO	ABBREVIATIONS
T	TE TIBAL TID TIN TIP TIS TPSN TPSO TPSP TRCRS TRON TRSON
	TRACKING ERROR BALANCE CONTROL BALANCE OUTPUT 1 BALANCE INPUT BALANCE INPUT BALANCE OUTPUT 2 OP AMP INPUT OP AMP OUTPUT OP AMP INVERTED INPUT TRACK CROSS SIGNAL TRACKING ON TRAVERSE SERVO ON

INITIAL/LOGO	ABBREVIATIONS
V	VBLANK VCC VCDCONT VDD VFB VREF VSS
	V BLANKING COLLECTOR POWER SUPPLY VOLTAGE VIDEO CD CONTROL (TRACKING BALANCE) DRAIN POWER SUPPLY VOLTAGE VIDEO FEED BACK VOLTAGE REFERENCE SOURCE POWER SUPPLY VOLTAGE
W	WAIT WDCK WEH WSR
	BUS CYCLE WAIT WORD CLOCK WRITE ENABLE HIGH WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

12. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.

Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

12.1. Power Supply P.C.B.

12.2. Main P.C.B.

12.3. Front (R) P.C.B.

12.4. PP9701, PP9702, PP9703 Connector

12.5. PP9701, PP9702 Waveform

13. Block Diagram

13.1. Power Supply Block Diagram

13.1.1. Integrated Circuit Power Supply Chart (PSC 1 - PSC 17)

13.2. Analog Video Block Diagram

13.3. Analog Audio Block Diagram

13.4. Timer Block Diagram

13.5. Digital Section Block Diagram

13.5.1. Digital Video Section Block Diagram

13.5.2. Digital Audio Section Block Diagram

13.5.3. Digital Block IC Pin Terminal Chart (TC 1 - TC 31)

14. Schematic Diagram

14.1. Interconnection Schematic Diagram

14.2. Main Power Supply Schematic Diagram (Main Power Supply P.C.B.)

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/8)

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/8)

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/8)

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/8)

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/8)

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/8)

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/8) & DV JACK Schematic Diagram

14.15. Real Time Stream Control (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/8)

14.16. SD & PC Card Schematic Diagram

14.17. Front (L) Schematic Diagram

14.18. Front (R) Schematic Diagram

15. Print Circuit Board

15.1. Main Power Supply P.C.B.

15.2. Main P.C.B.

15.2.1. Main P.C.B. (Section 1/4)

15.2.2. Main P.C.B. (Section 2/4)

15.2.3. Main P.C.B. (Section 3/4)

15.2.4. Main P.C.B. (Section 4/4)

15.2.5. Main P.C.B. Address Information

15.3. Digital P.C.B.

15.3.1. Digital P.C.B. (Section 1/2)

15.3.2. Digital P.C.B. (Section 2/2) and DV Jack P.C.B.

15.3.3. Digital P.C.B. Address Information

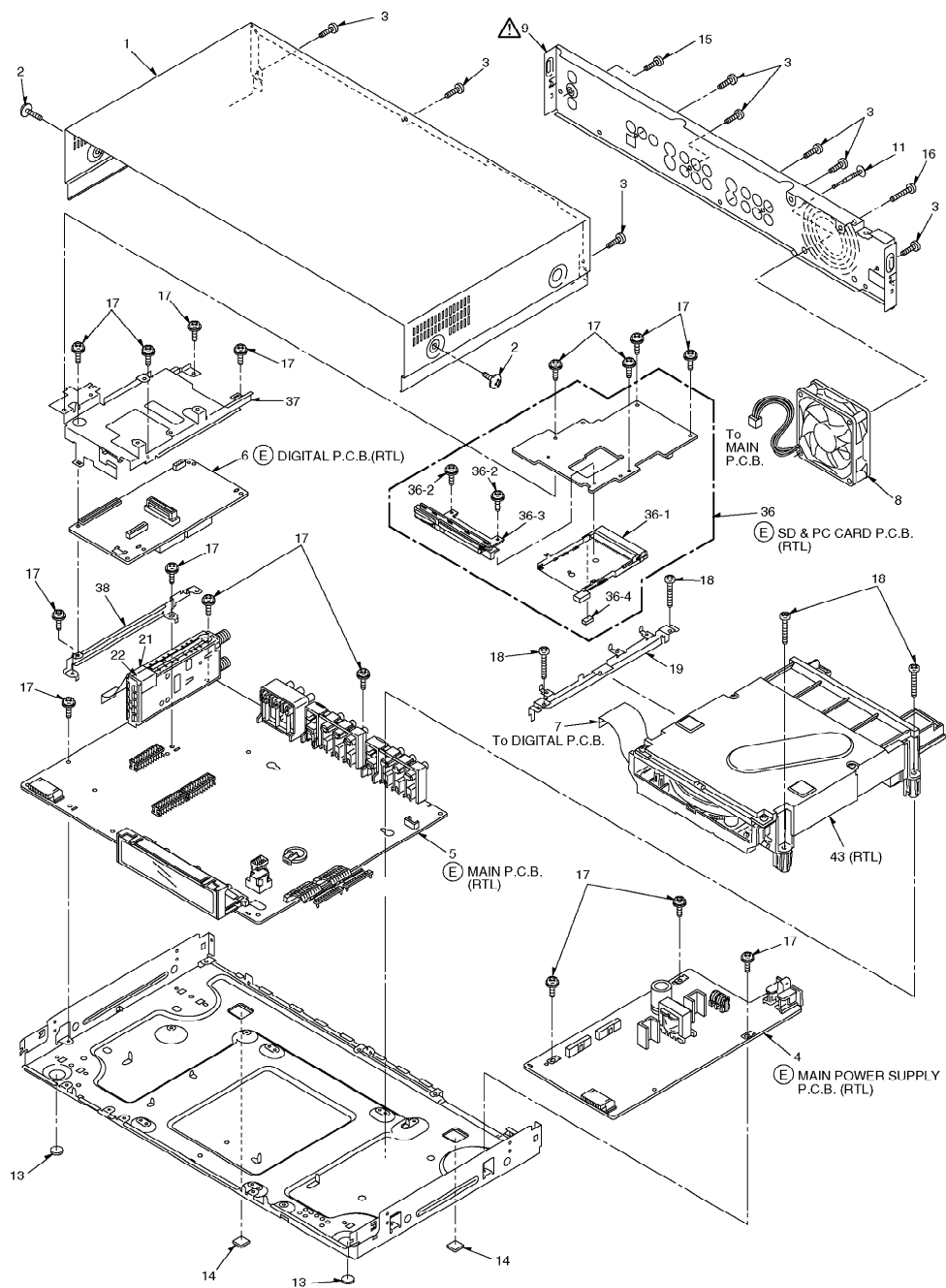
15.4. SD & PC Card P.C.B.

15.5. Front (L) P.C.B.

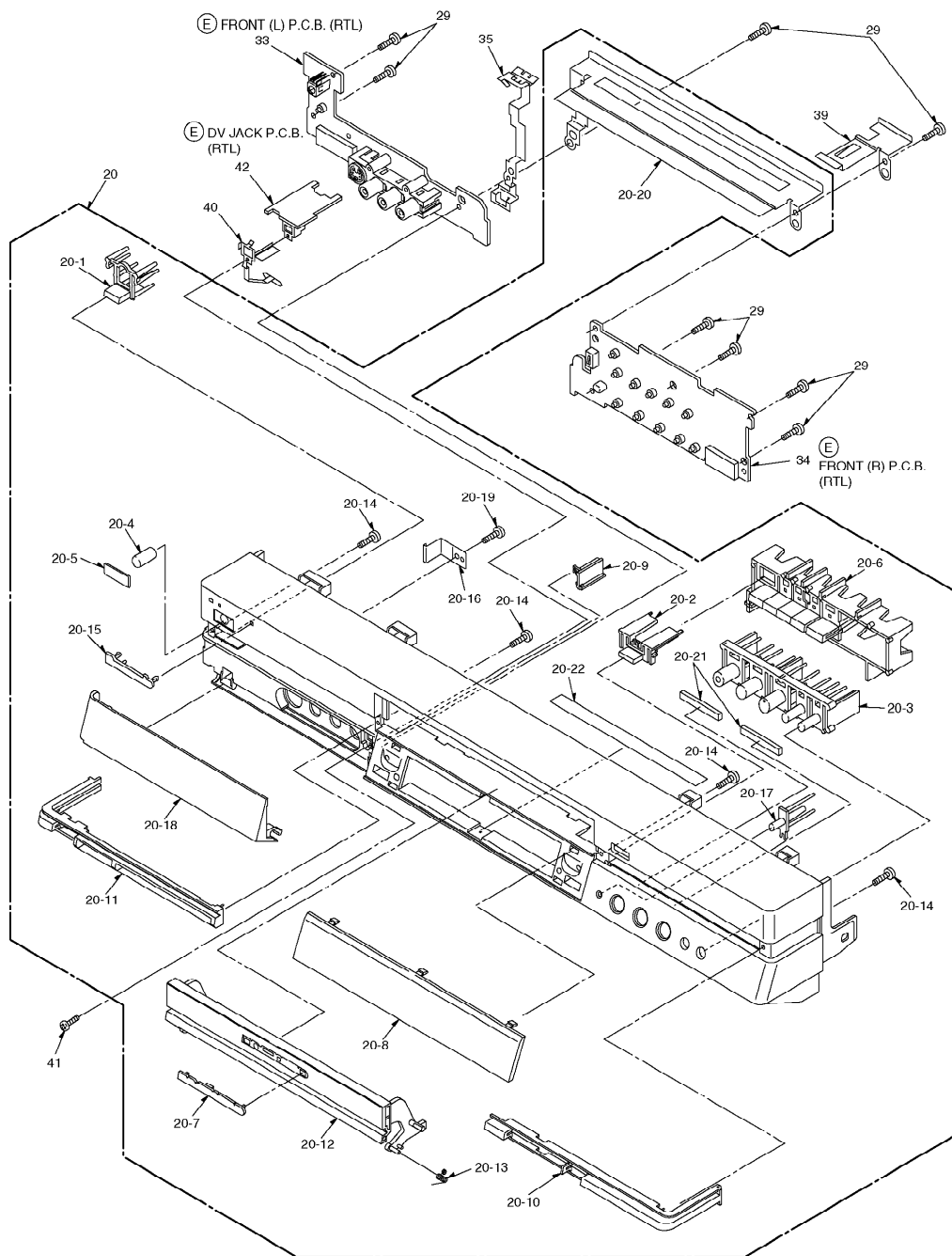
15.6. Front (R) P.C.B.

16. Exploded Views

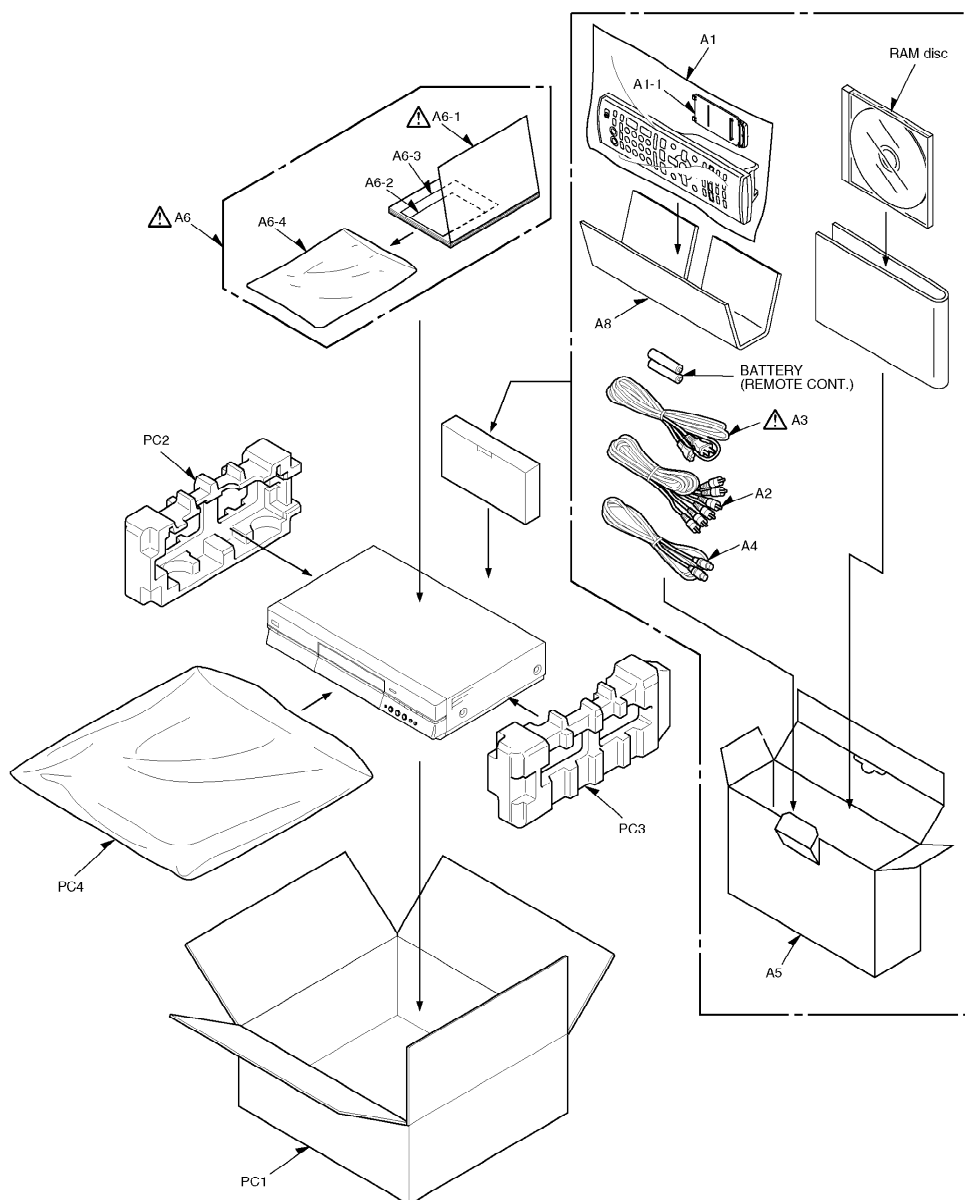
16.1. Casing Parts & Mechanism Section 1



16.2. Casing Parts & Mechanism Section 2



16.3. Packing & Accessories Section



17. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**

***“<IA>”-“<IC>”, marks in Remarks indicate languages of instruction manuals. [<IA>: English, <IB>: Canadian French, <IC>:English/ French/ Spanish]**

All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	01	CASING/ACCESSORY/PACKING		
1	RKM0485-S	TOP COVER	1	
2	SNE2129-4	SCREW	2	
3	VHD0690	SCREW	8	
4	VEP01933B	POWER SUPPLY P.C.B.	1	(RTL)
5	REP3497E	MAIN P.C.B.	1	(RTL)
6	REP3543B	DIGITAL P.C.B.	1	
7	VWJ1650	FFC(40P)	1	
8	L6FALCCE0001	FAN MOTOR	1	
9	RGR0337F-A	REAR PANEL	1	
11	RMR1529-K	RIVET	1	
13	RKA0143-K	LEG	2	
14	RKA0144-K	FOOT RUBBER	2	
15	XSN3+4FZ	SCREW	1	
16	XTN3+23JFZ	SCREW	1	
17	XTN3+7F-C	SCREW	18	
18	RHD30106	SCREW	4	
19	RMA1640A	DIGITAL ANGLE(R)	1	
20	RYP1200A-S	FRONT PANEL ASS'Y1	1	
20-1	RGU2185A-K	POWER BUTTON ASS'Y	1	
20-2	RGU2186-S	OPEN BUTTON	1	
20-3	RGU2188-S	OPERATION BUTTON	1	
20-4	RGQ0327-Q	IR WINDOW GUIDE	1	
20-5	RKW0724-S	IR WINDOW	1	
20-6	RGU2187A-K	CHANNEL BUTTON	1	
20-7	RGB0146-S	DVD RECORDING BADGE	1	
20-8	RGK1643-Q	FL ORNAMENT	1	
20-9	RMR1526-H	SHAFT HOLDER	1	
20-10	RGK1675A-K	FRONT ORNAMENT(R)	1	
20-11	RGK1674-K	FRONT ORNAMENT(L)	1	
20-12	RKF0668-S	TRAY DOOR	1	
20-13	VMB3410	BLINDER SPRING	1	
20-14	XTN2+6G	SCREW	4	
20-15	VGB0560	PANASONIC BADGE	1	
20-16	RMC0539	EARTH PLATE	1	
20-17	RGL0620-Q	LIGHTING PIECE	1	
20-18	RKF0666E-S	PANEL DOOR	1	
20-19	XTBS26+8J	SCREW	1	
20-20	RMA1639	FRONT ANGLE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-21	RMX0252	DAMPER SHEET	2	
20-22	RMZ0693	SHEET	1	
21	VGQ5954	TAPE1	1	
22	RGQ0324-K	TAPE2	1	
29	XTBS26+10J	SCREW	8	
33	REP3528AB	FRONT(L)P.C.B.	1	(RTL)
34	REP3528BA	FRONT(R)P.C.B.	1	(RTL)
35	RMC0549	EARTH PLATE	1	
36	REP3540BA	D & PC CARD P.C.B.	1	(RTL)
36-1	VXA7527	PC CARD SLOT	1	
36-2	XYN2+F6	SCREW	2	
36-3	RYQ0445A-A	CARD HOLDER ASS'Y	1	
36-4	RMX0266	GASKET	1	
37	RMA1650	PC CARD ANGLE	1	
38	RMA1651	DIGITAL ANGLE(L)	1	
39	RMC0570	EARTH PLATE	1	
40	RMC0550	DV EARTH	1	
41	XQN16+B4FN	SCREW	1	
42	REP3540AB	DV JACK P.C.B.	1	(RTL)
43	VXY1772-S	RAM DRIVE UNIT	1	(RTL)
A1	EUR7624KG0	REMOTE CONTROL ASS'Y	1	
A1-1	UR76EC2403A	BATTERY COVER	1	
A2	K2KA6CA00001	A/V CORD	1	
A3	K2CB2CB00006	AC CORD	1	⚠
A4	VJA1091	RF COAXIAL CABLE	1	K1TXAAA00001
A5	RPQF0238	ACCESSORY CASE	1	
A6	RQF5122	FAN BAG ASS'Y	1	⚠
A6-1	RQT6981-P	OPERATING INSTRUCTIONS	1	<IA> ⚠
A6-1	RQT6982-C	OPERATING INSTRUCTIONS	1	<IB> ⚠
A6-2	RQCA1004	DISC CAUTION SHEET	1	
A6-3	RQCA1121	PC CARD CAUTION SHEET	1	
A6-4	RPF0378	POLYETHYLENE BAG	1	
A8	RPQ1594	PAD	1	
PC1	RPG6597	PACKING CASE	1	
PC2	RPN1607A	CUSHION(L)	1	
PC3	RPN1607B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG(UNIT)	1	
■	02	VEP01933B		
C1120	ECQU2A104MLA	0.1U	1	⚠
C1121	ECQU2A103MLA	0.01U	1	⚠
C1124	F1BAF1020020	1000P	1	⚠
C1126,27	F1BAF1020020	1000P	2	⚠
C1143	EEUEB2E101SE	250V 100U	1	
C1150	F2A1V5600013	35V 56U	1	
C1151	F1B3A182A009	250V 1800P	1	
C1152	ECUV1H101JCV	50V 100P	1	F1H1H101A736
C1153	ECUV1H222KBV	50V 2200P	1	ECJ1VB1H222K
C1154	ECJ1VB1H102K	50V 1000P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1200	ECQV1H104JL3	50V 0.1U	1	
C1201	F1H1H473A783	50V 0.047U	1	
C1202	F1H1H104A783	50V 0.1U	1	
C1260,61	F2A1C6810023	16V 680U	2	
C1262	F2A1A1020054	10V 1000U	1	
C1271,72	F2A1C6810023	16V 680U	2	
C1302	ECA1AHG221	10V 220U	1	
C1304	ECA1AHG221	10V 220U	1	
C1401	F1H1H104A783	50V 0.1U	1	
C1402	F1H1H473A783	50V 0.047U	1	
C1403	ECJ1VB1H102K	50V 1000P	1	
C1404-06	F1H1H104A783	50V 0.1U	3	
C1407	ECJ1VB1H102K	50V 1000P	1	
C1409	F2A1A1020054	10V 1000U	1	
C1413	ECUV1H271JCV	50V 270P	1	F1H1H271A736
C1414	F1K1C3350002	16V 3.3U	1	
C1415,16	F1J0J106A014	6.3V 10U	2	
D1110	ERZVGAD471	DIODE	1	
D1140	B0EBKT000002	DIODE	1	
D1151	AU01Z	DIODE	1	B0HAGM000006
D1152	MAZ4091NMF	DIODE	1	
D1154	MA2C165001VT	DIODE	1	
D1156	MA2J11100L	DIODE	1	
D1260	B0JBSE000021	DIODE	1	
D1271	B0JAQG000005	DIODE	1	
D1272,73	D1FL20UF4063	DIODE	2	B0HCMM000001
D1305	MA2Q73800L	DIODE	1	
D1400	MA2J11100L	DIODE	1	
D1401,02	MA2Q73800L	DIODE	2	
D1404	B0HANM000024	DIODE	1	
F1101	K5D162BK0005	FUSE	1	
IC1150	C0DACZH00001	IC	1	
IC1200	UPC1093J	IC	1	C0DAEMC00002
IC1302	C0DBZHG00012	IC	1	
IC1303	C0DBZHE00014	IC	1	
IC1401	C0DBEKG00003	IC	1	
IC1410	C0DBAJH00006	IC	1	
IP1400	K5H302200002	IC PROTECTOR	1	
L1120	G0B123E00001	COIL	1	
L1260	G0A100H00014	COIL 10UH	1	
L1270	G0A100H00014	COIL 10UH	1	
L1400	G0A220H00008	COIL	1	
L1401	G0A220G00018	COIL 22UH	1	
LB1122,23	J0JKB0000003	COIL	2	
P1101	K2AB2H000004	AC INLET	1	
P1102	VJS4357B019B	CONNECTOR(19P)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P1103	K1KB15A00028	CONNECTOR(15P)	1	
P1104	K1KB10B00053	CONNECTOR(10P)	1	
Q1200,01	PC123ZY2	TRANSISTOR	2	B3PBA0000078 
Q1270	B1DHED000008	TRANSISTOR	1	
QR1200	UN2212	TRANSISTOR	1	UNR2212
QR1301-04	UNR221300L	TRANSISTOR	4	
R1120	ERDS1TJ474	1W 470K	1	
R1150	ERDS2FJ6R8	1/4W 6.8	1	
R1151	ERDS2FJ562	1/4W 5.6K	1	
R1152	ERDS2FJ103	1/4W 10K	1	
R1154	ER0S2CKG5601	1/4W 5.6K	1	
R1156	ER0S2CKG1802	1/4W 18K	1	EROS2CKG1802
R1157	EROS2TKG6800	1/4W 68	1	
R1200	ERJ6GEYG393V	1/10W 39K	1	
R1201	ERJ6GEY0R00V	1/10W 0	1	
R1204	ERJ6GEYF472	1/10W 4.7K	1	
R1206	ERJ6GEYG242	1/10W 2.4K	1	
R1207	ERJ6GEYJ103V	1/10W 10K	1	
R1208	ERJ6GEYG241	1/10W 240	1	
R1209	ERJ6GEYJ102V	1/10W 1K	1	
R1210	ERJ6GEYG362	1/10W 3.6K	1	
R1211	ERJ6GEYJ472V	1/10W 4.7K	1	
R1270	ERJ6GEYJ472V	1/10W 4.7K	1	
R1305	ERJ6GEYJ472V	1/10W 4.7K	1	
R1309	ERJ6GEYJ103V	1/10W 10K	1	
R1310	ERJ6GEYJ124V	1/10W 120K	1	
R1400	ERJ6GEYG105	1/10W 1M	1	
R1401	ERJ6GEYJ104V	1/10W 100K	1	
R1402	ERJ6GEYJ103V	1/10W 10K	1	
R1403	ERJ6RBD222	1/10W 2.2K	1	
R1404	ERJ6GEYJ470V	1/10W 47	1	
R1405	ERJ6ENF33R0	1/10W 33	1	
R1407	ERJ6RBD821	1/10W 820	1	
R1408,09	D1BDR2200001	0.22	2	
R1410	ERJ6GEY0R00V	1/10W 0	1	
R1411	ERJ6RBD123	1/10W 12K	1	
R1412	ERJ6RBD243	1/10W 24K	1	
R1413	ERJ6GEYJ100V	1/10W 10	1	
R1414,15	D1BDR2200001	0.22	2	
T1150	G4D2A0000112	TRANSFORMER	1	
W501,02	ERJ6GEY0R00V	1/10W 0	2	
ZA1101,02	VJR0978	EARTH ANGLE	2	K9ZZ00000424
ZA1103,04	K3GD9BB00001	FUSE HOLDER	2	
ZA1105	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZA1150	TUC25625	HEAT SINK	1	
ZA1151	XTN3+8G	SCREW	1	
ZA1260	TUC25628	HEAT SINK	1	
ZA1261	XTN3+8G	SCREW	1	

TABLE	TABLE	TABLE	TABLE	TABLE
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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	03	REP3497E		
B7501	CR-2032/1GUF	LITHIUM BATTERY	1	
C1502	F2A1E221A210	25V 220U	1	
C1503,04	F2A1A471A211	10V 470U	2	
C1505,06	F2A0J471A256	6.3V 470U	2	
C1507	ECJ1VB1C104K	16V 0.1U	1	
C1508	F2A0J470A012	6.3V 47U	1	
C1509	F2A1E4700048	25V 47U	1	
C1512	F2A1E4700048	25V 47U	1	
C1514	F2A1E4700048	25V 47U	1	
C1518	F2A1E4700048	25V 47U	1	
C1528	ECJ1VB1C104K	16V 0.1U	1	
C1530	F2A1E4700048	25V 47U	1	
C3001-04	ECJ1VC1H470J	50V 47P	4	
C3005	ECJ1VC1H560J	50V 56P	1	
C3006,07	ECJ1VC1H390J	50V 39P	2	
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECEA0JKS470	6.3V 47U	1	
C3010	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J
C3011	ECJ1VC1H390J	50V 39P	1	
C3012	ECJ1VB1H103K	50V 0.01U	1	
C3013	ECEA0JKS470	6.3V 47U	1	
C3014	ECJ1VC1H220J	50V 22P	1	
C3016	ECJ1VC1H220J	50V 22P	1	
C3017	ECJ1VB1H103K	50V 0.01U	1	
C3018	ECJ1VC1H220J	50V 22P	1	
C3019,20	ECJ1VC1H330J	50V 33P	2	
C3022	ECJ1VB1H103K	50V 0.01U	1	
C3023	ECJ1VB1C104K	16V 0.1U	1	
C3024	ECEA0JKS470	6.3V 47U	1	
C3025	ECJ1VC1H102J	50V 1000P	1	
C3027	ECEA1HKS010	50V 1U	1	
C3028,29	ECJ1VB1H103K	50V 0.01U	2	
C3030	ECJ1VC1H561J	50V 560P	1	
C3031	ECJ1VB1C104K	16V 0.1U	1	
C3043	ECJ1VC1H560J	50V 56P	1	
C3044	ECJ1VB1C104K	16V 0.1U	1	
C3045	ECJ1VB0J105K	6.3V 1U	1	
C3046	ECEA0JKS470	6.3V 47U	1	
C3047	ECJ1VB1H103K	50V 0.01U	1	
C3048	ECJ1VB0J105K	6.3V 1U	1	
C3049	ECJ1VC1H150J	50V 15P	1	
C3050	ECJ1VB1C104K	16V 0.1U	1	
C3051	ECEA0JKS101	6.3V 100U	1	
C3052,53	ECEA0JKS470	6.3V 47U	2	
C3055	ECA0JM102	6.3V 1000U	1	
C3056	ECEA0JKS101	6.3V 100U	1	
C3057	ECJ1VB1C104K	16V 0.1U	1	
C3058	ECJ1VC1H560J	50V 56P	1	
C3059	ECA0JM102	6.3V 1000U	1	
C3060	ECEA0JKS101	6.3V 100U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3061	ECA0JM102	6.3V 1000U	1	
C3062	ECEA0JKS101	6.3V 100U	1	
C3063,64	ECEA0JKS331	6.3V 330U	2	
C3066	ECJ1VB1H102K	50V 1000P	1	
C3067	ECEA1HSN010	50V 1U	1	
C3068	ECEA0JKS220	6.3V 22U	1	
C3069	ECJ1VB1H103K	50V 0.01U	1	
C3070	ECJ1VB1H472K	50V 4700P	1	
C3071	ECJ1VB1H103K	50V 0.01U	1	
C3072,73	ECJ1VC1H470J	50V 47P	2	
C3074	ECJ1VC1H560J	50V 56P	1	
C3075	ECJ1VC1H390J	50V 39P	1	
C3076-84	ECJ1VB1H103K	50V 0.01U	9	
C3085	ECJ1VB1H473K	50V 0.047U	1	
C3086-91	ECJ1VB1H103K	50V 0.01U	6	
C3092	ECJ1VB1C104K	16V 0.1U	1	
C3093,94	ECJ1VB1H103K	50V 0.01U	2	
C3095	ECEA0JKS470	6.3V 47U	1	
C3096	ECJ1VB1C104K	16V 0.1U	1	
C3097	ECJ1VC1H220J	50V 22P	1	
C3098	ECJ1VC1H150J	50V 15P	1	
C3099	ECJ1VC1H220J	50V 22P	1	
C3100	ECJ1VB1H103K	50V 0.01U	1	
C3101,02	ECEA0JKS470	6.3V 47U	2	
C3103	ECJ1XC1H180J	50V 18P	1	ECJ1VC1H180J
C3104	ECJ1VC1H102J	50V 1000P	1	
C3901	ECJ1VB1C104K	16V 0.1U	1	
C3902	ECJ1VB1H103K	50V 0.01U	1	
C3904-06	ECJ1VB1H103K	50V 0.01U	3	
C3907	ECJ1VB1C104K	16V 0.1U	1	
C4003	F2A1H100A236	50V 10U	1	
C4005	F2A1E470A205	25V 47U	1	
C4006	F2A1H100A236	50V 10U	1	
C4021	ECJ1VF1C104Z	16V 0.1U	1	
C4023	F2A1H100A236	50V 10U	1	
C4025	F2A1H100A236	50V 10U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4028	ECJ1VF1C104Z	16V 0.1U	1	
C4029	F2A1C102A236	16V 1000U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4033,34	F2A1E470A205	25V 47U	2	
C4037-42	F2A1H100A236	50V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECUV1H680JCG	50V 68P	1	ECJ2VC1H680J
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	F2A1A101A206	10V 100U	1	
C4063,64	F2A1E470A205	25V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4068	ECJ1VF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4070	F2A1A101A206	10V 100U	1	
C4072	F2A1A101A206	10V 100U	1	
C4074	ECJ1VF1C104Z	16V 0.1U	1	
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H330J	50V 33P	2	
C4082-85	ECJ2VC1H102J	50V 1000P	4	
C4901	F2A1A101A206	10V 100U	1	
C4902	ECJ1VF1C104Z	16V 0.1U	1	
C4903	F2A0J470A179	6.3V 47U	1	
C4904	ECJ1VF1C104Z	16V 0.1U	1	
C4906	ECJ1VC1H220J	50V 22P	1	
C7404	ECJ1VB1H103K	50V 0.01U	1	
C7405	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C7411	ECJ1VB1C104K	16V 0.1U	1	
C7412	F2A1A470A140	10V 47U	1	
C7416	ECJ1VB1H103K	50V 0.01U	1	
C7417	F2A1H1R0A147	50V 1U	1	F2A1H1R0A146
C7432,33	F2A1C100A019	16V 10U	2	
C7438	ECJ1VB1C104K	16V 0.1U	1	
C7439	VCEA0JCB470B	6.3V 47U	1	F2A0J470A013
C7502,03	ECJ1VB1H103K	50V 0.01U	2	
C7504-06	ECJ1VC1H100C	50V 10P	3	
C7507,08	ECJ1VB1H103K	50V 0.01U	2	
C7517	ECJ1VB1H103K	50V 0.01U	1	
C7518,19	ECJ1VF1C104Z	16V 0.1U	2	
C7523,24	ECJ1VB1H103K	50V 0.01U	2	
C7525	F2A1H100A146	50V 10U	1	
C7526	ECJ1VF1H104Z	50V 0.1U	1	
C7528	F2A1C221A019	16V 220U	1	
C7529	F2A0J221A016	6.3V 220U	1	
C7531	ECQB1H223KF3	50V 0.022U	1	
C7532	F2A1V470A116	35V 47U	1	
C7533	F2A1H100A146	50V 10U	1	
C7534	ECJ1VC1H100C	50V 10P	1	
C7535	ECJ1VF1C104Z	16V 0.1U	1	
C7536	ECJ1VC1H120J	50V 12P	1	
C7537	ECJ1VF1A105Z	10V 1U	1	
C7539	ECJ1VC1H101J	50V 100P	1	
C7543-45	ECJ1VC1H101J	50V 100P	3	
C7546	ECJ1VF1C104Z	16V 0.1U	1	
C7547,48	ECJ1VC1H030C	50V 3P	2	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VB1H103K	50V 0.01U	1	
C9701,02	ECJ1VF1C104Z	16V 0.1U	2	
D3001	MA2C165001VT	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7401	MA4300N-M	DIODE	1	MAZ4300NM
D7502	MAZ4240NMF	DIODE	1	
D7503	ERA22-02	DIODE	1	B0HAGM000001
D7505,06	MA2C18500E	DIODE	2	
D7507	MA4300N-M	DIODE	1	MAZ4300NM
D7513,14	B0JACE000001	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
DP7501	A2BD00000070	FL DISPLAY TUBE	1	
IC1502	C0DBEFG00002	IC	1	
IC1504	C0DBZGG00010	IC	1	
IC1505	C0DBZHG00012	IC	1	
IC1508	C0DBZHE00014	IC	1	
IC1509	C0DBZFG00012	IC	1	
IC1513	C0DBZHE00014	IC	1	
IC3002	C2BBFE000133	IC	1	
IC3003	C1AB00001735	IC	1	
IC3005	C9ZB00000377	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000118	IC	1	
IC4009	C0ABBB000118	IC	1	
IC4010	C0DBZJG00006	IC	1	
IC4011	C0DBZHG00012	IC	1	
IC4012	C0ABBB000118	IC	1	
IC7405	C0BBBB000006	IC	1	
IC7501	C2BBGF000442	IC	1	
IC7503	C0EBF0000182	IC	1	
IC7504	C0ZBZ0000732	IC	1	
IC7505	C0EBH0000263	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IP7501	D4FAR4000001	IC PROTECTOR	1	
JK3901	K1U822B00001	JACK,IN1/IN3	1	
JK3902	K1U820B00002	JACK,OUT	1	
JK3903	K1U407B00001	JACK,VIDEO/AUDIO OUT	1	
K7401	ERJ3GEY0R00V	1/16W 0	1	
K7504	ERJ3GEY0R00V	1/16W 0	1	
L3001	G0C120JA0019	COIL 12UH	1	
L3002	G0C220JA0019	COIL 22UH	1	
L3003,04	G0C120JA0019	COIL 12UH	2	
L3005	G0C220JA0019	COIL 22UH	1	
L3006	G0C120JA0019	COIL 12UH	1	
L3007	G0C4R7JA0019	COIL 4.7UH	1	
L3008	G0C220JA0019	COIL 22UH	1	
L3009,10	G0C4R7JA0019	COIL 4.7UH	2	
L3012	G0C4R7JA0019	COIL 4.7UH	1	
L3014	G0C120JA0019	COIL 12UH	1	
L3015,16	G0C4R7JA0019	COIL 4.7UH	2	
L3017,18	G0C120JA0019	COIL 12UH	2	
L3019	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3020	G0C120JA0019	COIL 12UH	1	
L3021	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3022,23	G0C120JA0019	COIL 12UH	2	
L4901	ELESE220KA	COIL 22UH	1	
L7501	ELESE101K	COIL 100UH	1	
L7502	G0C220JA0019	COIL 22UH	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB1501-05	J0JHC0000032	COIL	5	
LB3001	VLP0323A601T	COIL	1	J0JCC0000103
LB3901-04	VLP0323A601T	COIL	4	J0JCC0000103
LB3908-18	VLP0323A601T	COIL	11	J0JCC0000103
LB4907-14	VLP0323A601T	COIL	8	J0JCC0000103
LB7402,03	J0JHC0000032	COIL	2	
LB7408	J0JHC0000032	COIL	1	
LB7508	G0ZZ00001936	COIL	1	
LB9701,02	J0JHC0000032	COIL	2	
LB9703,04	ERJ3GEY0R00V	1/16W 0	2	
P7501	K1KB20B00040	CONNECTOR(20P)	1	
P7503	TJS118601T	CONNECTOR(3P)	1	K1KA03A00173
PP1501	K1KA19A00016	CONNECTOR(19P)	1	
PP1502	K1KA08A00355	CONNECTOR(8P)	1	
PP1503	K1KA15A00124	CONNECTOR(15P)	1	
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	
Q3001,02	2SB1218A	TRANSISTOR	2	
Q3003	2SA153200L	TRANSISTOR	1	
Q3004	2SB1218A	TRANSISTOR	1	
Q3005	2SD1819A0L	TRANSISTOR	1	
Q3006,07	2SB1218A	TRANSISTOR	2	
Q3008	2SD1819A0L	TRANSISTOR	1	
Q3009	2SB1218A	TRANSISTOR	1	
Q3010	2SD1819A0L	TRANSISTOR	1	
Q3011	2SC3930	TRANSISTOR	1	
Q3012	2SD1819A0L	TRANSISTOR	1	
Q3015	2SB1218A	TRANSISTOR	1	
Q4004	2SB1218A	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q7401	2SB1218A	TRANSISTOR	1	
Q7501	2SD1994BR1VT	TRANSISTOR	1	
Q7502	2SD0601A0L	TRANSISTOR	1	
Q7509	2SD0874A0L	TRANSISTOR	1	
Q7510,11	2SD0601A0L	TRANSISTOR	2	
QR3001	UN5211	TRANSISTOR	1	UNR5211
QR3002	UN5213TX	TRANSISTOR	1	UNR521300L
QR3004,05	UN5211	TRANSISTOR	2	UNR5211
QR3006-10	UN5213TX	TRANSISTOR	5	UNR521300L
QR3011	UN5113TW	TRANSISTOR	1	
QR4002-07	UN5211	TRANSISTOR	6	UNR5211
QR4010-12	UN5211	TRANSISTOR	3	UNR5211
QR7401	UN5213TX	TRANSISTOR	1	UNR521300L
QR7501	UN5212TX	TRANSISTOR	1	UNR521200L
QR7504	UN5113TW	TRANSISTOR	1	
R1501	ERJ3GEY0R00V	1/16W 0	1	
R1502	ERJ3GEYJ471V	1/16W 470	1	
R1503	ECJ1VB1C104K	16V 0.1U	1	
R1515	ERDS2FJ271	1/4W 270	1	
R3001	MCR03PZHJ561	1/16W 560	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3002,03	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3004	MCR03PZHJ561	1/16W 560	1	
R3005	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3006	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3007	ERJ3GEYJ102V	1/16W 1K	1	
R3008	MCR03PZHJ561	1/16W 560	1	
R3009	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3010	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3011	ERJ3GEYJ102V	1/16W 1K	1	
R3012-14	ERJ3GEY0R00V	1/16W 0	3	
R3015,16	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3017,18	ERJ3GEYJ102V	1/16W 1K	2	
R3019	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3021	ERJ3GEYJ472V	1/16W 4.7K	1	
R3022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3024	ERJ3GEYJ102V	1/16W 1K	1	
R3025	MCR03PZHJ561	1/16W 560	1	
R3026	ERJ3GEYJ102V	1/16W 1K	1	
R3027	ERJ3GEYJ105V	1/16W 1M	1	
R3028	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3029	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3030	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3032,33	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3039	ERJ3GEYJ221V	1/16W 220	1	
R3040	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3041	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3042	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3043	ERJ3GEYJ102V	1/16W 1K	1	
R3044,45	ERJ3GEYJ151V	1/16W 150	2	
R3046	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3047	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3048	ERJ3GEYJ102V	1/16W 1K	1	
R3049,50	ERJ3GEYJ151V	1/16W 150	2	
R3051	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3052	MCR03PZHJ561	1/16W 560	1	
R3053	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3054	ERJ3GEYJ104	1/16W 100K	1	
R3055	ERJ3GEYJ102V	1/16W 1K	1	
R3056	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3057	ERJ3GEYJ471V	1/16W 470	1	
R3058	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3060	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3061	ERJ3GEYJ152V	1/16W 1.5K	1	
R3062	ERJ3GEYJ102V	1/16W 1K	1	
R3063	ERJ3GEY0R00V	1/16W 0	1	
R3064	ERJ3GEYJ102V	1/16W 1K	1	
R3065,66	ERJ3GEY0R00V	1/16W 0	2	
R3067	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3068	ERJ3GEY0R00V	1/16W 0	1	
R3070,71	ERJ3GEY0R00V	1/16W 0	2	
R3072	ERJ3GEYJ102V	1/16W 1K	1	
R3073,74	ERJ3GEYJ221V	1/16W 220	2	
R3075,76	ERJ3GEY0R00V	1/16W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3077	ERJ3GEYJ102V	1/16W 1K	1	
R3080	ERJ3GEY0R00V	1/16W 0	1	
R3084,85	ERJ3GEYJ912V	1/16W 9.1K	2	
R3086	ERJ3GEY0R00V	1/16W 0	1	
R3087	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3096	ERJ3GEYJ271V	1/16W 270	1	
R3099	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3100	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3102,03	ERJ3GEYJ472V	1/16W 4.7K	2	
R3106	ERJ3GEYJ102V	1/16W 1K	1	
R3107	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3108	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3901-08	ERJ3GEYJ750	1/16W 75	8	
R3920-24	ERJ3GEYJ750	1/16W 75	5	
R3926,27	ERJ3GEYJ750	1/16W 75	2	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4003	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4004	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4006	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4008	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4011	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4013	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4015	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4021,22	ERJ3GEY0R00V	1/16W 0	2	
R4024	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4026	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4037,38	ERJ3GEYJ184V	1/16W 180K	2	
R4040-43	ERJ3GEYJ184V	1/16W 180K	4	
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	JAR0816P752D	1/16W 7.5K	2	D0HB752ZA002
R4048	ERJ3GEYJ184V	1/16W 180K	1	
R4049-54	ERJ3GEYJ683V	1/16W 68K	6	D0GB683JA002
R4055	JAR0816P153D	1/16W 15K	1	D0HB153ZA002
R4057	JAR0816P153D	1/16W 15K	1	D0HB153ZA002
R4060-65	ERJ3GEYJ183V	1/16W 18K	6	D0GB183JA002
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002
R4068	ERJ3GEYJ184V	1/16W 180K	1	
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4072,73	ERJ3GEYJ563V	1/16W 56K	2	
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076,77	ERJ3GEYJ821V	1/16W 820	2	
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080,81	ERJ3GEYJ821V	1/16W 820	2	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090-93	ERJ3GEYJ221V	1/16W 220	4	
R4901	ERJ3GEY0R00V	1/16W 0	1	
R4903	ERJ3GEY0R00V	1/16W 0	1	
R7403,04	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7405	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7406,07	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7408,09	ERJ3GEY0R00V	1/16W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7418,19	ERG2SJ471E	2W 470	2	
R7445	ERJ3RBD222V	1/16W 2.2K	1	
R7446	ERJ3RBD153	1/16W 15K	1	
R7447	ERJ3RBD102V	1/16W 1K	1	
R7448	ERJ3RBD222V	1/16W 2.2K	1	
R7451	ERJ3RBD133V	1/16W 13K	1	
R7452	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7501	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7502	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7503	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7504	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7505	ERJ3GEYJ472V	1/16W 4.7K	1	
R7509	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7513,14	ERJ3GEYJ221V	1/16W 220	2	
R7515,16	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7518	ERDS2FJ331	1/4W 330	1	
R7519	ERDS2FJ3R9	1/4W 3.9	1	
R7521	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7522,23	ERJ3GEYJ104	1/16W 100K	2	
R7524	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7525	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7526,27	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7528	ERJ3GEYJ221V	1/16W 220	1	
R7529-31	ERJ3RBD822	1/16W 8.2K	3	
R7532-34	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R7540	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7541-43	ERJ3GEYJ473V	1/16W 47K	3	D0GB473JA002
R7544	ERJ3GEYJ221V	1/16W 220	1	
R7545	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7546	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7547	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7548,49	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7550	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7554,55	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7556	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7557	ERJ3GEY0R00V	1/16W 0	1	
R7558,59	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7563	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7564	ERJ3GEYJ102V	1/16W 1K	1	
R7566-73	ERJ3GEYJ683V	1/16W 68K	8	D0GB683JA002
R7576-78	ERJ3GEYJ104	1/16W 100K	3	
R7580-82	ERJ3GEYJ104	1/16W 100K	3	
R7586	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7587	ERJ3GEYJ221V	1/16W 220	1	
R7588	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7590	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
T7501	ETS13TB119AP	TRANSFORMER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
TU7401	ENG6201D	TUNER PACK	1	
W501-08	ERJ3GEY0R00V	1/16W 0	8	
W510-20	ERJ3GEY0R00V	1/16W 0	11	
W522-25	ERJ3GEY0R00V	1/16W 0	4	
X3001	H0D800400016	CRYSTAL OSCILLATOR	1	
X7501	H0A327200082	CRYSTAL OSCILLATOR	1	
X7502	H0D419400020	CRYSTAL OSCILLATOR	1	
ZJ7401	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZJ9701	VJR0978	EARTH ANGLE	1	K9ZZ00000424
■	04	REP3543B		
C3201,02	ECJ1VB1C104K	16V 0.1U	2	
C3203	ECJ1VB1H222K	50V 2200P	1	
C3205	ECJ1VB1C104K	16V 0.1U	1	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3208	EEE0JA220SR	6.3V 22U	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3213	EEE0JA220SR	6.3V 22U	1	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEE0JA101SP	6.3V 100U	1	
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C3502	ECJ1VB1H103K	50V 0.01U	1	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEE0JA220SR	6.3V 22U	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEE0JA101SP	6.3V 100U	1	
C4409-14	ECJ1VB1H102K	50V 1000P	6	
C4415	EEE1EA4R7SR	25V 4.7U	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEE0JA470SR	6.3V 47U	1	
C9003	EEE0JA470SR	6.3V 47U	1	
C9005,06	EEE0JA470SR	6.3V 47U	2	
C9008	EEE0JA470SR	6.3V 47U	1	
C9009,10	ECJ1VC1H470J	50V 47P	2	
C9011	EEE0JA470SR	6.3V 47U	1	
C9013	EEE0JA470SR	6.3V 47U	1	
C9015	ECJ1VF1C104Z	16V 0.1U	1	
C9016	EEE0JA470SR	6.3V 47U	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9019	F1J0J106A014	6.3V 10U	1	
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEE0JA470SR	6.3V 47U	1	
C37013	ECJ1VB1C104K	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEE0JA101SP	6.3V 100U	1	
C37025	ECJ1VB1C104K	16V 0.1U	1	
C37031	ECJ1XC1H180J	50V 18P	1	ECJ1VC1H180J
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VB1C104K	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50001	ECJ1VF1C104Z	16V 0.1U	1	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEE0JA220SR	6.3V 22U	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEE0JA220SR	6.3V 22U	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEE0JA101SP	6.3V 100U	1	
C50025	ECST1AY106R	10V 10U	1	
C50026	EEE0JA470SR	6.3V 47U	1	
C50027	EEE1CA100SR	16V 10U	1	
C50028	ECJ1VF1C104Z	16V 0.1U	1	
D3201,02	MA3S132E0L	DIODE	2	
D3203,04	MA2ZV0100L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	
FL3201	F1H0J1050018	FILTER	1	
FL3205-13	F1H0J1050018	FILTER	9	
FL3216	F1H0J1050018	FILTER	1	
FL3218	F1H0J1050018	FILTER	1	
FL3220	F1H0J1050018	FILTER	1	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-11	F1H0J1050018	FILTER	3	
FL3421	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL3501-14	F1H0J1050018	FILTER	14	
FL4401,02	F1H0J1050018	FILTER	2	
FL6001-06	F1H0J1050018	FILTER	6	
FL6009-13	F1H0J1050018	FILTER	5	
FL6701-03	F1H0J1050018	FILTER	3	
FL9003,04	F1H0J1050018	FILTER	2	
FL9007	F1H0J1050018	FILTER	1	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL37001-09	F1H0J1050018	FILTER	9	
FL37012	F1H0J1050018	FILTER	1	
FL37014,15	F1H0J1050018	FILTER	2	
FL50001,02	F1H0J1050018	FILTER	2	
FL50005-14	F1H0J1050018	FILTER	10	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
FP3501	K1MN40A00018	CONNECTOR(40P)	1	
IC3201	C3ABMG000103	IC	1	
IC3202	C1ZBZ0002277	IC	1	
IC3203	MN673744	IC	1	
IC3204,05	C0JBAB000474	IC	2	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572	IC	1	
IC3501,02	C3ABQG000043	IC	2	
IC3503	MN88301	IC	1	
IC4402	C0ABBB000105	IC	1	
IC4403	C0FBAK000008	IC	1	
IC4404	C0JBAA000257	IC	1	
IC6001	C0EBE0000130	IC	1	
IC6002	C3ABQG000043	IC	1	
IC6004	MN103E0500YD	IC	1	
IC6006	C3CBKD000119	IC	1	
IC6007	74LCX16244MT	IC	1	C0JBAZ001475
IC6701	C1ZBZ0002255	IC	1	
IC6702	C0JBAB000474	IC	1	
IC6703	REP3543B	DIGITAL P.C.B.	1	
IC9001	C0DBZFE00003	IC	1	
IC9002	C0DBCGD00001	IC	1	
IC37001	MN673745	IC	1	
IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	
IC37008	C0JBAA000102	IC	1	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000078	IC	1	
IC50003	MN6775511	IC	1	
IC50004	C3ABPG000078	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C0JBAZ001776	IC	1	
IC50010	C0FBBK000035	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005
LB3201-05	J0JHC0000032	COIL	5	
LB3401,02	J0JHC0000032	COIL	2	
LB3501	J0JHC0000032	COIL	1	
LB3502,03	J0JHC0000045	COIL	2	
LB4401-03	J0JGC0000020	COIL	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
LB9001	J0JHC0000032	COIL	1	
LB9003	J0JHC0000045	COIL	1	
LB9004,05	J0JHC0000032	COIL	2	
LB9006	J0JHC0000045	COIL	1	
LB9008-11	J0JHC0000032	COIL	4	
LB9012	J0JHC0000045	COIL	1	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	VLP0323A601T	COIL	1	J0JCC0000103
LB37001,02	J0JHC0000032	COIL	2	
LB37005	J0JHC0000032	COIL	1	
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	
P3503	K1KA70A00037	CONNECTOR(70P)	1	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
PS9001-03	K1KB30A00135	CONNECTOR(30P)	3	
PS37001	K1KB08B00055	CONNECTOR(8P)	1	
Q3201	2SB1218A	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q6701-04	2SD0601A0L	TRANSISTOR	4	
Q50001-05	2SB1218A	TRANSISTOR	5	
QR3501	UN5213TX	TRANSISTOR	1	UNR521300L
QR3503	UN5213TX	TRANSISTOR	1	UNR521300L
QR9001	UN5111	TRANSISTOR	1	UNR5111
QR9005	UN5213TX	TRANSISTOR	1	UNR521300L
R3203,04	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3205	ERJ3GEYJ622V	1/16W 6.2K	1	
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3216	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R3222	ERJ3GEYJ104	1/16W 100K	1	
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3226	ERJ3GEY0R00V	1/16W 0	1	
R3232	ERJ3GEYJ220V	1/16W 22	1	
R3233	ERJ3GEY0R00V	1/16W 0	1	
R3237,38	ERJ3GEY0R00V	1/16W 0	2	
R3239	ERJ3GEYJ104	1/16W 100K	1	
R3240	ERJ3GEYJ105V	1/16W 1M	1	
R3241	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3242	ERJ3GEYJ104	1/16W 100K	1	
R3255	ERJ3GEY0R00V	1/16W 0	1	
R3261	ERJ3GEY0R00V	1/16W 0	1	
R3401	ERJ3GEYJ390	1/16W 39	1	
R3402	ERJ3GEYJ220V	1/16W 22	1	
R3403	ERJ3GEY0R00V	1/16W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3404	ERJ3GEYJ220V	1/16W 22	1	
R3406	ERJ3GEYJ220V	1/16W 22	1	
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3423	ERJ3GEYJ220V	1/16W 22	1	
R3425	ERJ3GEY0R00V	1/16W 0	1	
R3427	ERJ3GEY0R00V	1/16W 0	1	
R3503	ERJ3GEYJ220V	1/16W 22	1	
R3504-06	ERJ3GEYJ330V	1/16W 33	3	D0GB330JA002
R3507,08	ERJ3GEYJ220V	1/16W 22	2	
R3509-12	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3513	ERJ3GEY0R00V	1/16W 0	1	
R3514	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3515	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3516,17	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R3519-25	ERJ3GEY0R00V	1/16W 0	7	
R3526-29	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3531	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3533	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3534	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3535	ERJ3GEYJ102V	1/16W 1K	1	
R3536	ERJ3GEY0R00V	1/16W 0	1	
R3538	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3539,40	ERJ3GEYJ820V	1/16W 82	2	
R3541	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3542,43	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3544	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3545,46	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3547	ERJ3GEYJ102V	1/16W 1K	1	
R3548	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R4407,08	ERJ3RBD103V	1/16W 10K	2	
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412,13	ERJ3GEY0R00V	1/16W 0	2	
R4415,16	ERJ3GEY0R00V	1/16W 0	2	
R4418	ERJ3GEYJ470V	1/16W 47	1	
R4420	ERJ3GEY0R00V	1/16W 0	1	
R6001,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6007-09	ERJ3GEYJ470V	1/16W 47	3	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6012	ERJ3GEYJ221V	1/16W 220	1	
R6013,14	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/16W 47	1	
R6019	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6023	ERJ3GEY0R00V	1/16W 0	1	
R6701,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/16W 47	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6706	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/16W 100K	1	
R6708	ERJ3GEY0R00V	1/16W 0	1	
R6709-18	ERJ3GEYJ470V	1/16W 47	10	
R6719	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/16W 47	2	
R6722	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6723-26	ERJ3GEYJ470V	1/16W 47	4	
R6727	ERJ3GEY0R00V	1/16W 0	1	
R6728	ERJ3GEYJ104	1/16W 100K	1	
R6729	ERJ3GEYJ470V	1/16W 47	1	
R6730	ERJ3GEYJ102V	1/16W 1K	1	
R6731,32	ERJ3GEYJ470V	1/16W 47	2	
R6733-38	ERJ3GEY0R00V	1/16W 0	6	
R6739	ERJ3GEYJ470V	1/16W 47	1	
R6740,41	ERJ3GEY0R00V	1/16W 0	2	
R6742	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6743	ERJ3GEY0R00V	1/16W 0	1	
R6744,45	ERJ3GEYJ470V	1/16W 47	2	
R6746,47	ERJ3GEY0R00V	1/16W 0	2	
R6748	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6749	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6750	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6753	ERJ3GEYJ472V	1/16W 4.7K	1	
R6755	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R9010	ERJ3GEY0R00V	1/16W 0	1	
R9012	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R9013	ERJ3GEY0R00V	1/16W 0	1	
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R37001-04	ERJ3RED560V	1/16W 56	4	
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/16W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3EKF1800	1/16W 180	1	ERJ3RBD181V
R37009	ERJ3GEYJ102V	1/16W 1K	1	
R37010-15	ERJ3GEY0R00V	1/16W 0	6	
R37016	ERJ3GEYJ102V	1/16W 1K	1	
R37017	ERJ3GEYJ472V	1/16W 4.7K	1	
R37018	ERJ3GEYJ105V	1/16W 1M	1	
R37019,20	ERJ3GEY0R00V	1/16W 0	2	
R37021	ERJ3GEYJ102V	1/16W 1K	1	
R37022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37028	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R37029,30	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R37032-38	ERJ3GEY0R00V	1/16W 0	7	
R37044	ERJ3GEYJ221V	1/16W 220	1	
R37046	ERJ3GEYJ102V	1/16W 1K	1	
R37047,48	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R37050-52	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00V	1/16W 0	1	
R37054	ERJ3GEYJ472V	1/16W 4.7K	1	
R37055	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R37057,58	ERJ3GEY0R00V	1/16W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R37060	ERJ3GEYJ220V	1/16W 22	1	
R37061,62	ERJ3GEY0R00V	1/16W 0	2	
R37063	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37064-70	ERJ3GEY0R00V	1/16W 0	7	
R37100	ERJ3GEYJ220V	1/16W 22	1	
R37103	ERJ3GEYJ220V	1/16W 22	1	
R37104-06	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002-04	ERJ3GEYJ470V	1/16W 47	3	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/16W 22	4	
R50012	ERJ3GEY0R00V	1/16W 0	1	
R50013	ERJ3RBD153	1/16W 15K	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018	ERJ3GEY0R00V	1/16W 0	1	
R50019	ERJ3GEYJ470V	1/16W 47	1	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3GEYJ470V	1/16W 47	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00V	1/16W 0	1	
R50034	ERJ3RED360V	1/16W 36	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/16W 0	1	
R50038	ERJ3RED360V	1/16W 36	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/16W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223	1/16W 22K	1	
R50050	ERJ3GEYJ220V	1/16W 22	1	
R50052	ERJ3GEY0R00V	1/16W 0	1	
R50053-55	ERJ3GEYJ470V	1/16W 47	3	
R50058	ERJ3GEYJ220V	1/16W 22	1	
R50060	ERJ3GEY0R00V	1/16W 0	1	
R50080	ERJ3GEYJ470V	1/16W 47	1	
R50082-84	ERJ3GEY0R00V	1/16W 0	3	
R50086	ERJ3GEY0R00V	1/16W 0	1	
RA3401-12	D1H82204A024	RESISTOR-RESISTOR	12	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RX3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RX3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RX3213,14	D1H82204A024	RESISTOR-RESISTOR	2	
RX3501-07	D1H82204A024	RESISTOR-RESISTOR	7	
RX3508-23	D1H83304A024	RESISTOR-RESISTOR	16	
RX3524	D1H84734A024	RESISTOR-RESISTOR	1	
RX3525	D1H81034A024	RESISTOR-RESISTOR	1	
RX3526-29	D1H83304A024	RESISTOR-RESISTOR	4	
RX3530-33	D1H82204A024	RESISTOR-RESISTOR	4	
RX3534-38	D1H81034A024	RESISTOR-RESISTOR	5	
RX3650,51	D1H8R0040009	RESISTOR-RESISTOR	2	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	
RX6013-17	D1H83304A024	RESISTOR-RESISTOR	5	
RX6018	D1H82204A024	RESISTOR-RESISTOR	1	
RX6019	D1H83304A024	RESISTOR-RESISTOR	1	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022	D1H84704A024	RESISTOR-RESISTOR	1	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6030-33	D1H84704A024	RESISTOR-RESISTOR	4	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR	1	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
RX37001-05	D1H81034A024	RESISTOR-RESISTOR	5	
RX37006-14	D1H82204A024	RESISTOR-RESISTOR	9	
RX37015-18	D1H81034A024	RESISTOR-RESISTOR	4	
RX50001,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX50009-16	D1H82204A024	RESISTOR-RESISTOR	8	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX50017	D1H81034A024	RESISTOR-RESISTOR	1	
RX50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RX50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
T37001	J0JBD0000043	TRANSFORMER	1	
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
■	05	REP3528AB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VF1C104Z	16V 0.1U	1	
C7004	ECJ1VB1H103K	50V 0.01U	1	
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00005	JACK,IN2	1	
K7002	ERJ3GEY0R00V	1/16W 0	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
P7001	K1KA20B00132	CONNECTOR(20P)	1	
R7002	ERJ3GEYJ102V	1/16W 1K	1	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7011	ERDS2FJ330	1/4W 33	1	
S7003	EVQ11G07K	SWITCH,POWER	1	
■	06	REP3528BA		
D7801	B3ABA0000396	DIODE	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801	UN2214	TRANSISTOR	1	UNR2214
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7821	ERDS2FJ221	1/4W 220	1	
S7801	K0L1BA000056	SWITCH,TRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
S7802	EVQ11G07K	SWITCH,REC	1	
S7803	EVQ11G07K	SWITCH,CH-DOWN	1	
S7804	EVQ11G07K	SWITCH,SKIP-R	1	
S7805	EVQ11G07K	SWITCH,STOP	1	
S7808	EVQ11G07K	SWITCH,CH-UP	1	
S7809	EVQ11G07K	SWITCH,MODE	1	
S7810	EVQ11G07K	SWITCH,ERASE	1	
S7811	EVQ11G07K	SWITCH,TIME WARP	1	
S7812	EVQ11G07K	SWITCH,PLAY	1	
S7815	EVQ11G07K	SWITCH,SKIP-F	1	
S7816	EVQ11G07K	SWITCH,OPEN/CLOSE	1	
■	07	REP3540BA		
C6801	ECJ1VB1C104K	16V 0.1U	1	
C6803-06	ECJ1VB1C104K	16V 0.1U	4	
C6808-10	ECJ1VB1C104K	16V 0.1U	3	
C6811,12	ECJ1VB1H103K	50V 0.01U	2	
C6813	EEE1CA470SP	16V 47U	1	
C6814	EEE0JA101SP	6.3V 100U	1	
C6815	ECJ1VB1H103K	50V 0.01U	1	
C6816	ECJ1VB1C104K	16V 0.1U	1	
FL6801-08	F1H0J1050018	FILTER	8	
IC6801	TC7W32FUTL	IC	1	C0JBAE000098
IC6802	C0JBAZ001166	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAZ001988	IC	1	
IC6805	C0JBAZ001859	IC	1	
IC6806	C0JBAZ000608	IC	1	
IC6807	C0DBCHG00003	IC	1	
IC6809	C0EBJ0000153	IC	1	
IC6810	C0JBAZ001859	IC	1	
K6801	ERJ3GEY0R00V	1/16W 0	1	
LB6801	J0JHC0000032	COIL	1	
LB6802,03	J0JHC0000045	COIL	2	
P6801	K1KB70A00036	CONNECTOR(70P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1NA09E00027	CONNECTOR(9P)	1	
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
Q6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR6801	UN5211	TRANSISTOR	1	UNR5211
R6801,02	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6803	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6804,05	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R6806	ERJ3GEYJ104	1/16W 100K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6807	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6808	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R6809	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6810,11	ERJ3GEYJ220V	1/16W 22	2	
R6812,13	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R6814	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6815-18	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002
R6819	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6820-27	ERJ3GEYJ223V	1/16W 22K	8	D0GB223JA002
R6828	ERJ3GEYJ123V	1/16W 12K	1	
RX6801-12	D1H83304A024	RESISTOR-RESISTOR	12	
RX6813	D1H82204A024	RESISTOR-RESISTOR	1	
RX6814-17	D1H84734A024	RESISTOR-RESISTOR	4	
RX6818	D1H81234A024	RESISTOR-RESISTOR	1	
■	08	REP3540AB		
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
■	10	JIG TOOLS		
	RFKZ0125	EXTENSION CABLE (40P)	1	RAM DRIVE-DIGITAL P.C.B.
	RFKZ0164	EXTENSION CABLE (30P~3)	1	MAIN-DIGITAL P.C.B.
	RFKZ0165	EXTENSION CABLE (20P)	1	FRONT(L)-MAIN P.C.B.
	RFKZ0166	EXTENSION CABLE (10P)	1	FRONT(R)-POWER SUPPLY P.C.B.
	RFKZ0168	EXTENSION CABLE (3P)	1	FAN MOTOR
	RFKZ0170	EXTENSION CABLE (19P)	1	MAIN-POWER SUPPLY P.C.B.
	RFKZ0171	EXTENSION CABLE (15P)	1	MAIN-POWER SUPPLY P.C.B.
	RFKZ0181	EXTENSION CABLE (70P)	1	DIGITAL-SD & PC CARD P.C.B.

18. Schematic Diagram for printing with A4

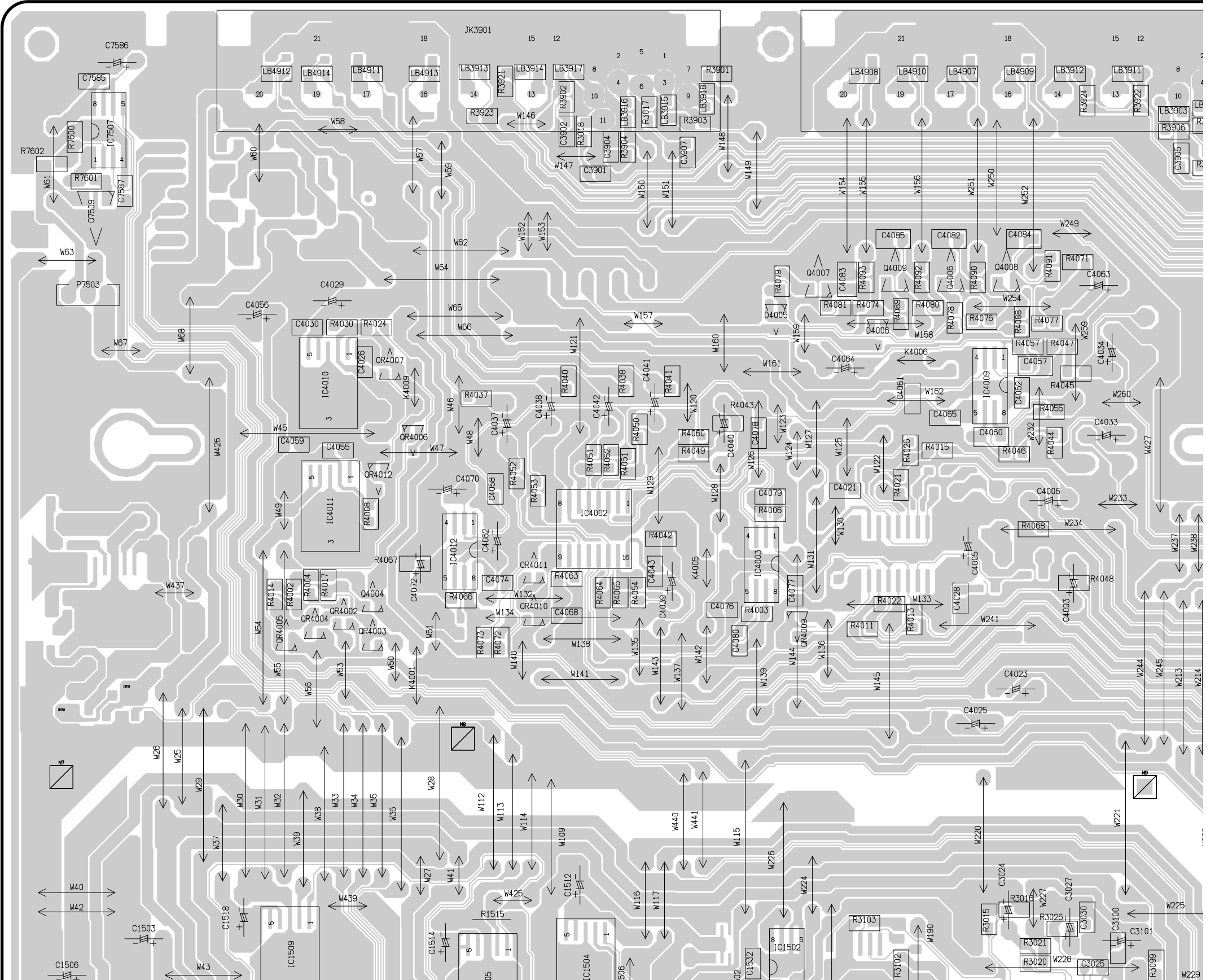


MAIN P.C.B.

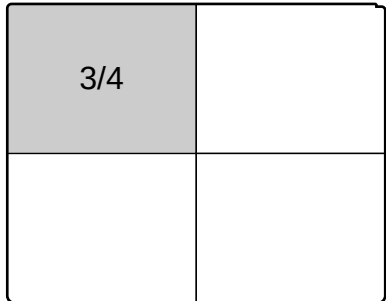
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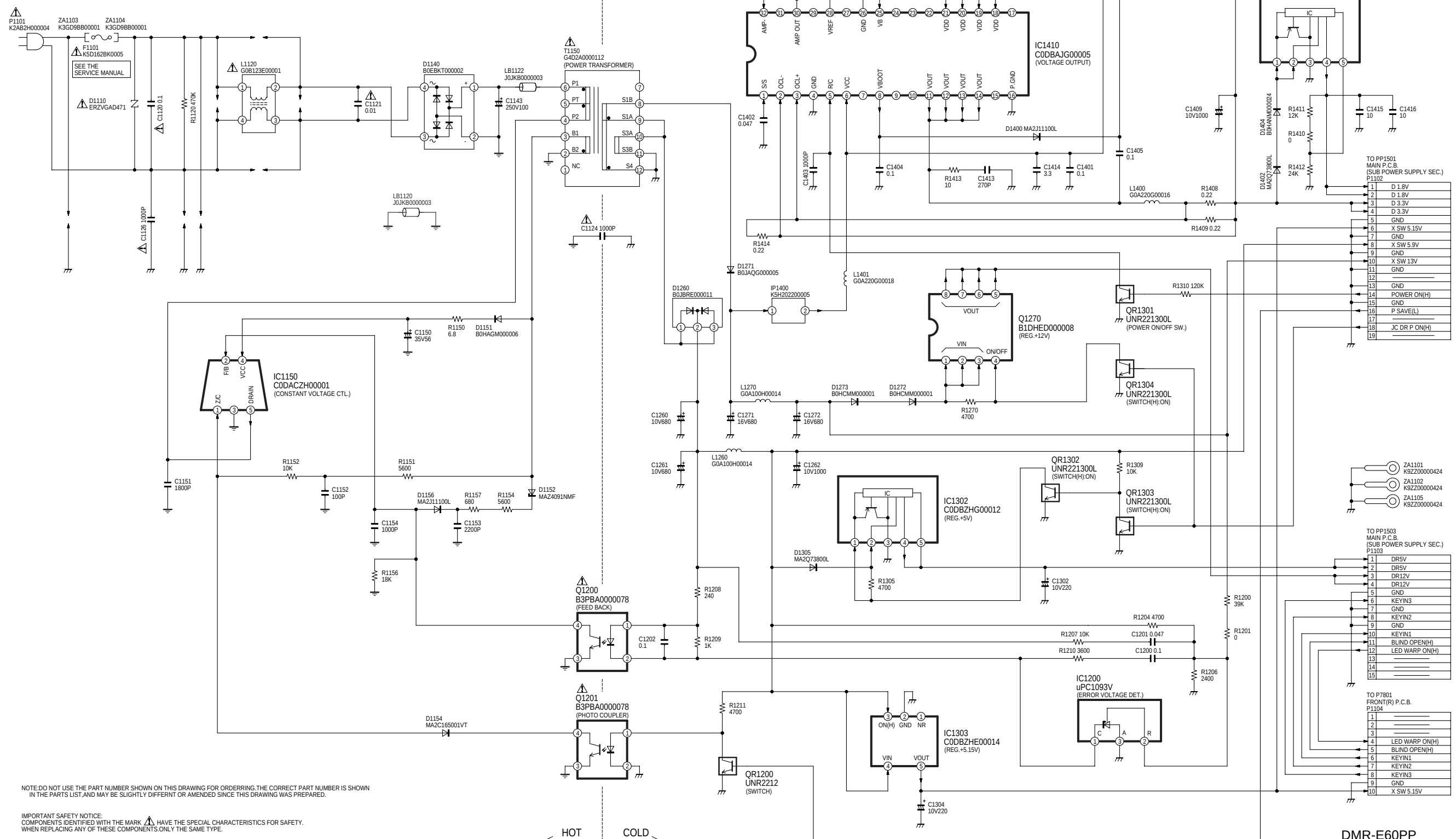
Location Map



Main P.C.B. (3/4 Section)
DMR-E60PP (REP3497E)

MAIN P.C.B.																
Integrated Circuit		TL7506	B-4	LB3918	F-3	C3064	F-6	C4074	E-2	R3017	F-3	R4002	E-2	R7505	A-2	
IC1502	C-3	TL7507	A-5	LB4907	F-4	C3066	C-4	C4076	D-3	R3018	F-3	R4003	D-3	R7509	B-2	
	C-3	TL7538	A-1	LB4908	F-3	C3067	C-4	C4077	E-3	R3019	C-3	R4004	E-2	R7513	B-2	
	C-2	Connector		LB4909	F-4	C3068	C-3	C4078	E-3	R3020	C-4	R4006	E-3	R7514	B-2	
	E-7	JK3901	F-2	LB4910	F-4	C3069	C-3	C4079	E-3	R3021	C-4	R4008	E-2	R7515	A-4	
	C-2	JK3902	F-4	LB4911	F-2	C3070	C-3	C4080	D-3	R3022	C-4	R4011	D-3	R7516	A-4	
	F-7	JK3903	F-5	LB4912	F-2	C3071	C-6	C4082	F-4	R3024	E-7	R4013	D-4	R7517	A-2	
	C-4	P7501	A-7	LB4913	F-2	C3072	D-6	C4083	F-3	R3025	D-6	R4014	E-2	R7518	A-1	
	C-6	P7503	E-1	LB4914	F-2	C3073	E-6	C4084	F-4	R3026	C-4	R4015	E-4	R7519	A-1	
	E-6	PP1501	C-1	LB7402	F-7	C3074	D-6	C4085	F-4	R3027	C-4	R4017	E-2	R7521	A-2	
	E-3	PP1502	B-2	LB7403	E-7	C3075	D-6	C4901	F-6	R3028	E-7	R4021	E-4	R7522	A-2	
	E-3	PP1503	B-1	LB7408	C-7	C3076	C-6	C4902	F-6	R3029	E-7	R4022	D-4	R7523	A-2	
	E-4	PP9701	C-7	LB7508	A-2	C3077	C-6	C4903	F-6	R3030	C-4	R4024	E-2	R7524	A-2	
	E-2	PP9702	C-5	LB9701	C-7	C3078	D-6	C4904	F-6	R3032	C-6	R4026	E-4	R7525	A-4	
	E-2	PP9703	B-5	LB9702	C-7	C3079	D-6	C4906	F-6	R3033	C-6	R4030	E-2	R7526	A-3	
	E-2	Diode		LB9703	C-7	C3080	C-6	C7404	F-7	R3039	C-4	R4037	E-2	R7527	A-3	
	D-7	D3001	C-6	LB9704	C-7	C3081	B-6	C7405	F-7	R3040	C-4	R4038	E-3	R7528	A-3	
	A-3	D4005	E-3	Capacitor		C3082	B-6	C7411	E-7	R3041	C-3	R4040	E-3	R7529	B-4	
B-4	D4006	E-3	C1502	C-1	C3083	C-6	C7412	E-7	R3042	D-6	R4041	E-3	R7530	B-4		
B-2	D7401	D-8	C1503	C-1	C3084	B-6	C7416	F-8	R3043	D-6	R4042	E-3	R7531	B-4		
B-3	D7502	A-1	C1504	C-1	C3085	C-6	C7417	D-8	R3044	D-6	R4043	E-3	R7532	B-3		
F-1	D7503	A-1	C1505	C-1	C3086	D-6	C7432	A-8	R3045	D-6	R4044	E-4	R7533	B-3		
Transistor		D7505	B-2	C1506	C-1	C3087	C-6	C7433	A-8	R3046	E-6	R4045	E-4	R7534	B-3	
Q3001	D-6	D7506	A-2	C1507	F-7	C3088	C-6	C7438	D-7	R3047	D-6	R4046	E-4	R7536	B-3	
	E-6	D7507	A-2	C1508	C-3	C3089	B-6	C7439	D-7	R3048	D-6	R4047	E-4	R7537	B-4	
	E-7	D7513	C-2	C1509	E-7	C3090	B-6	C7502	B-4	R3049	E-6	R4048	E-4	R7540	B-3	
	C-4	D7514	C-2	C1512	D-3	C3091	C-6	C7503	B-3	R3050	E-6	R4049	E-3	R7541	B-3	
	C-3	Crystal Osillator		C1514	C-2	C3092	D-6	C7504	A-3	R3051	E-6	R4050	E-3	R7542	B-3	
	C-3	X3001	C-4	C1518	D-1	C3093	B-6	C7505	A-3	R3052	D-6	R4051	E-3	R7543	B-3	
	D-6	X7501	B-2	C1528	F-7	C3094	B-6	C7506	A-3	R3053	D-6	R4052	E-2	R7544	B-2	
	D-6	X7502	B-3	C1530	F-7	C3095	B-6	C7507	B-4	R3054	C-3	R4053	E-2	R7545	B-2	
	D-6	IC Protector		C1532	C-3	C3096	B-6	C7508	B-4	R3055	C-4	R4054	E-3	R7546	B-4	
	E-6	IP7501	B-1	C3001	E-6	C3097	C-4	C7517	B-4	R3056	C-3	R4055	E-4	R7547	B-3	
	E-7	Coil		C3002	D-6	C3098	C-6	C7518	B-3	R3057	C-4	R4057	E-4	R7548	B-4	
	C-4	L3001	D-6	C3003	D-6	C3099	C-4	C7519	A-3	R3058	C-3	R4060	E-3	R7549	B-4	
	C-4	L3002	D-6	C3004	D-6	C3100	C-4	C7523	B-3	R3060	C-3	R4061	E-3	R7550	B-4	
	E-2	L3003	E-6	C3005	D-6	C3101	C-4	C7524	A-1	R3061	C-6	R4062	E-3	R7554	B-3	
	F-4	L3004	E-6	C3006	D-6	C3102	B-6	C7525	B-1	R3062	C-6	R4063	E-2	R7555	B-4	
	F-3	L3005	E-6	C3007	D-6	C3103	C-6	C7526	A-2	R3063	C-6	R4064	E-3	R7556	A-2	
	F-4	L3006	B-4	C3008	D-5	C3104	C-4	C7528	B-1	R3064	C-6	R4065	E-3	R7557	B-3	
	F-4	L3007	E-6	C3009	E-7	C3901	F-3	C7529	B-1	R3065	C-6	R4066	E-2	R7558	B-3	
	E-7	L3008	E-7	C3010	E-6	C3902	F-2	C7531	A-2	R3066	B-6	R4067	E-2	R7559	B-3	
	A-2	L3009	E-6	C3011	E-6	C3904	F-3	C7532	B-1	R3067	C-6	R4068	E-4	R7563	B-4	
	A-2	L3010	D-6	C3012	E-6	C3905	F-4	C7533	B-1	R3068	C-6	R4071	F-4	R7564	C-2	
	F-1	L3012	E-6	C3013	C-6	C3906	F-5	C7534	B-3	R3070	F-6	R4072	D-2	R7566	A-2	
	A-4	L3014	E-7	C3014	D-6	C3907	F-3	C7535	B-3	R3071	C-6	R4073	D-2	R7567	A-2	
	A-4	L3015	E-6	C3016	D-6	C4003	E-4	C7536	B-3	R3072	C-6	R4074	E-3	R7568	A-2	
	Transistor-resistor		L3016	E-6	C3017	E-7	C4005	E-4	C7537	A-4	R3073	B-6	R4076	E-4	R7569	A-2
	QR3001	E-6	L3017	B-6	C3018	D-6	C4006	E-4	C7539	B-4	R3074	B-6	R4077	E-4	R7570	A-2
		D-7	L3018	B-5	C3019	D-7	C4021	E-3	C7543	B-3	R3075	B-6	R4078	E-4	R7571	A-2
D-6		L3019	D-6	C3020	E-7	C4023	D-4	C7544	B-3	R3076	D-6	R4079	F-3	R7572	A-2	
E-6		L3020	D-6	C3022	B-6	C4025	D-4	C7545	B-3	R3077	B-6	R4080	E-4	R7573	A-2	
D-6		L3021	D-6	C3023	D-6	C4026	E-2	C7546	B-2	R3080	B-6	R4081	E-3	R7576	B-2	
D-7		L3022	D-6	C3024	D-4	C4028	E-4	C7547	B-3	R3084	F-5	R4088	E-4	R7577	B-2	
D-6		L3023	D-7	C3025	C-4	C4029	E-2	C7548	B-3	R3085	F-5	R4089	E-4	R7578	B-2	
D-6		L4901	F-6	C3027	C-4	C4030	E-2	C7585	F-1	R3086	E-7	R4090	F-4	R7580	B-2	
D-6		L7501	B-1	C3028	B-6	C4033	E-4	C7586	F-1	R3087	C-4	R4091	F-4	R7581	B-2	
B-4		L7502	A-4	C3029	C-6	C4034	E-4	C7587	F-1	R3096	C-4	R4092	F-4	R7582	B-2	
D-2		L7503	B-3	C3030	D-4	C4037	E-2	C9701	C-7	R3099	C-4	R4093	F-3	R7586	C-3	
D-2		L7504	B-3	C3031	C-4	C4038	E-2	C9702	C-7	R3100	C-5	R4901	F-6	R7587	B-2	
D-2		LB1501	C-1	C3043	E-6	C4039	E-3	Resistor		R3102	C-4	R4903	F-6	R7588	B-1	
D-2		LB1502	C-1	C3044	E-6	C4040	E-3	R1501	C-3	R3103	C-3	R7403	F-8	R7590	A-6	
E-2		LB1503	C-1	C3045	E-6	C4041	E-3	R1502	C-3	R3106	D-7	R7404	F-8	R7600	F-1	
E-2		LB1504	C-1	C3046	E-6	C4042	E-3	R1515	C-2	R3107	E-7	R7405	C-5	R7601	F-1	
D-2		LB1505	C-1	C3047	E-6	C4043	E-3	R3001	D-6	R3108	E-7	R7406	D-8	R7602	F-1	
E-2		LB3001	C-3	C3048	E-6	C4052	E-4	R3002	D-6	R3901	F-3	R7407	D-8	Transformer		
E-2		LB3901	F-5	C3049	E-6	C4055	E-2	R3003	B-6	R3902	F-2	R7408	A-8	T7501	B-2	
C-4		LB3902	F-5	C3050	B-4	C4056	E-1	R3004	D-6	R3903	F-3	R7409	B-8	Backup Battery		
B-4		LB3903	F-4	C3051	B-4	C4057	E-4	R3005	D-6	R3904	F-3	R7418	D-8	B7501	C-2	
B-2		LB3904	F-5	C3052	E-6	C4058	E-2	R3006	D-6	R3905	F-5	R7419	C-8			
Test Point		LB3908	F-6	C3053	E-6	C4059	E-2	R3007	D-6	R3906	F-4	R7445	D-7			
CL7501		B-3	LB3909	F-5	C3055	E-6	C4060	E-4	R3008	E-6	R3907	F-5	R7446	D-7		
CL9701		B-5	LB3910	F-5	C3056	E-6	C4061	E-4	R3009	E-6	R3908	F-5	R7447	D-7		
TL3001		B-6	LB3911	F-4	C3057	E-6	C4062	E-2	R3010	E-6	R3920	F-6	R7448	D-7		
TL7401		E-8	LB3912	F-4	C3058	F-6	C4063	F-4	R3011	E-6	R3921	F-2	R7451	D-7		
TL7501	A-4	LB3913	F-2	C3059	F-6	C4064	E-3	R3012	C-4	R3922	F-4	R7452	E-7			
TL7502	B-2	LB3914	F-2	C3060	E-6	C4065	E-4	R3013	C-5	R3923	F-2	R7501	A-4			
TL7503	B-2	LB3915	F-3	C3061	E-6	C4068	D-2	R3014	C-4	R3924	F-4	R7502	A-4			
TL7504	B-3	LB3916	F-3	C3062	E-7	C4070	E-2	R3015	C-4	R3926	F-5	R7503	A-4			
TL7505	B-2	LB3917	F-3	C3063	F-7	C4072	E-2	R3016	D-4	R3927	F-5	R7504	A-4			

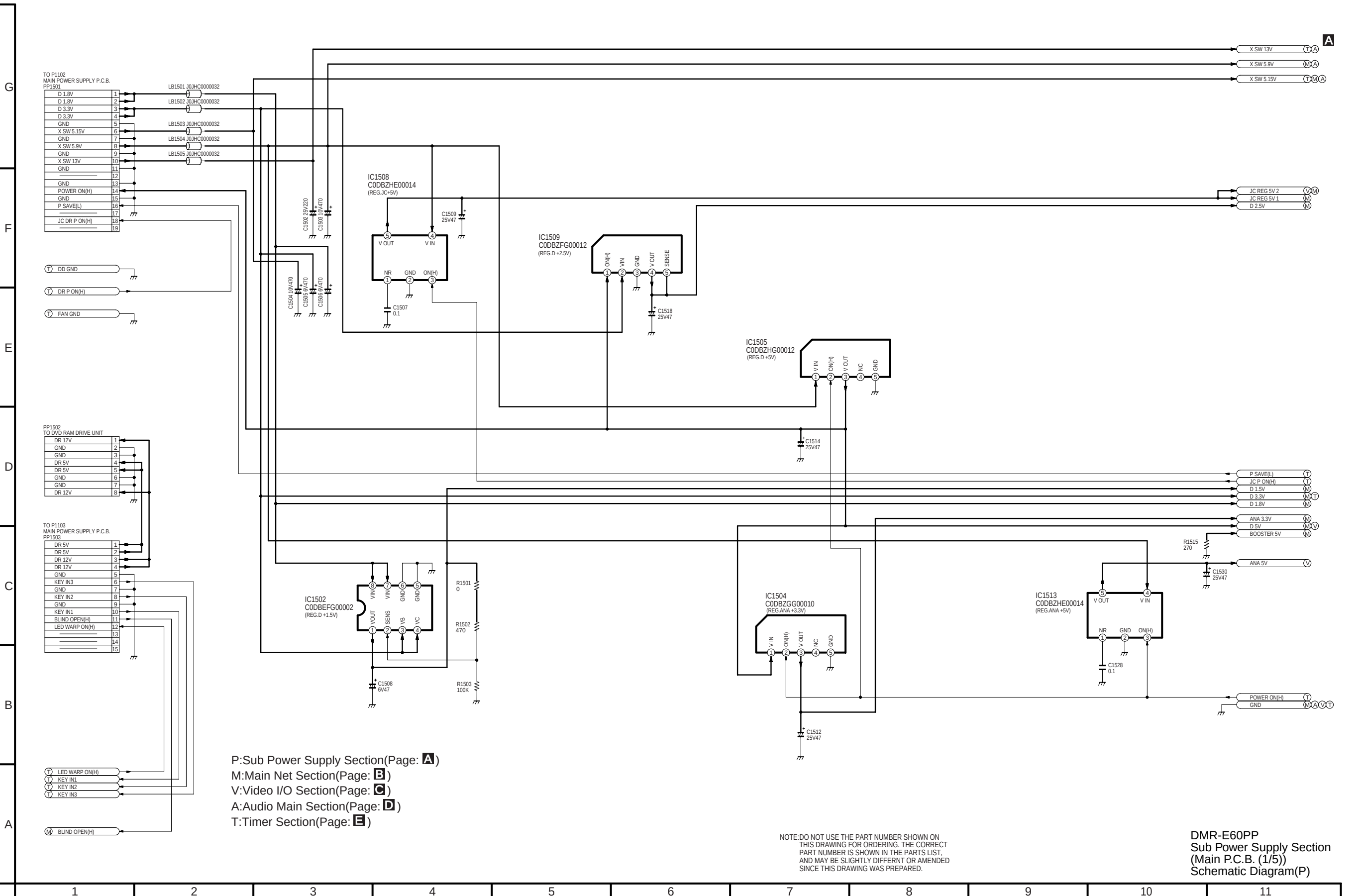
G
F
E
D
C
B
A



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,ONLY THE SAME TYPE.

DMR-E60PP
Main Power Supply
Schematic Diagram

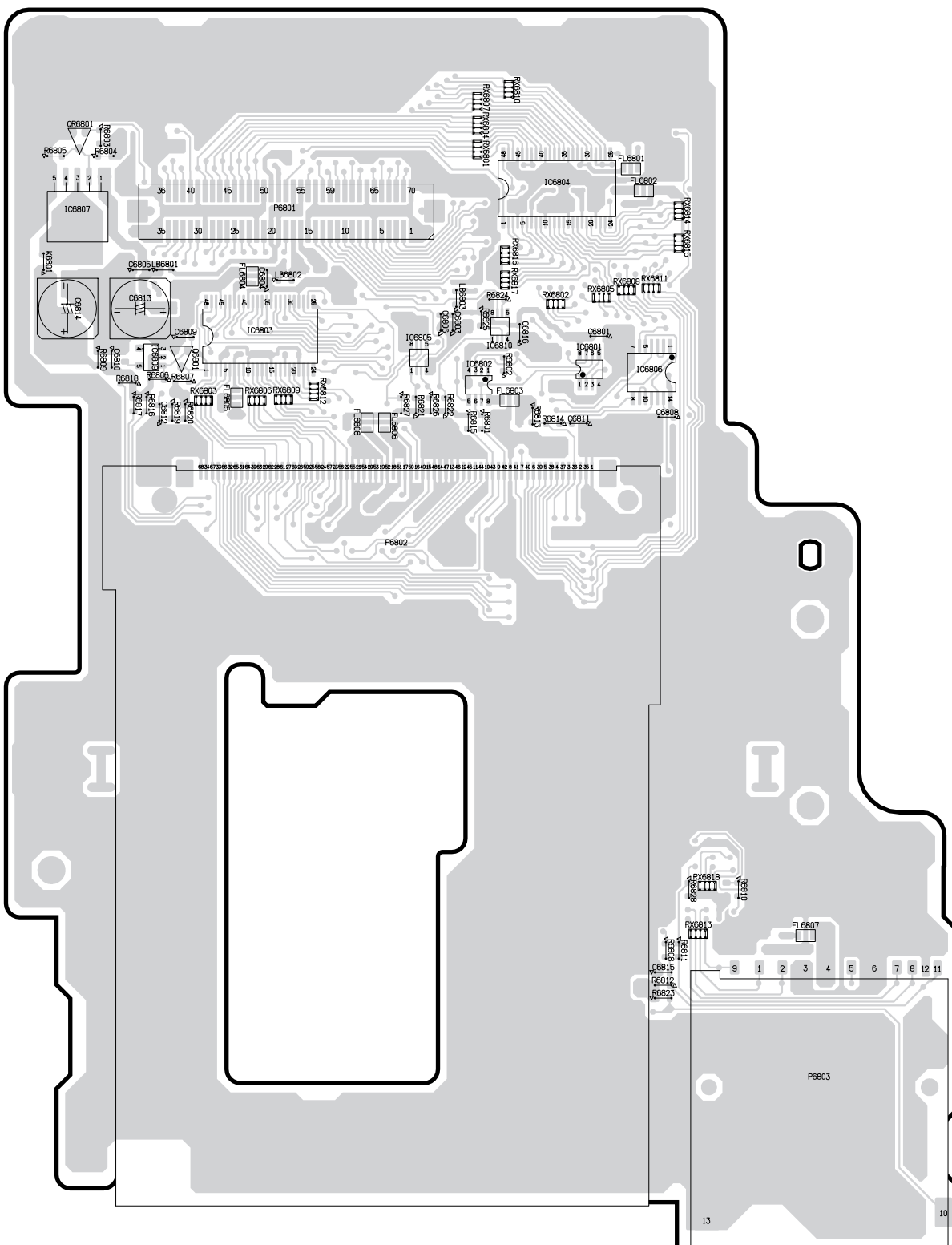


P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60PP
Sub Power Supply Section
(Main P.C.B. 1/5)
Schematic Diagram(P)

SD & PC CARD P.C.B. (1/2)



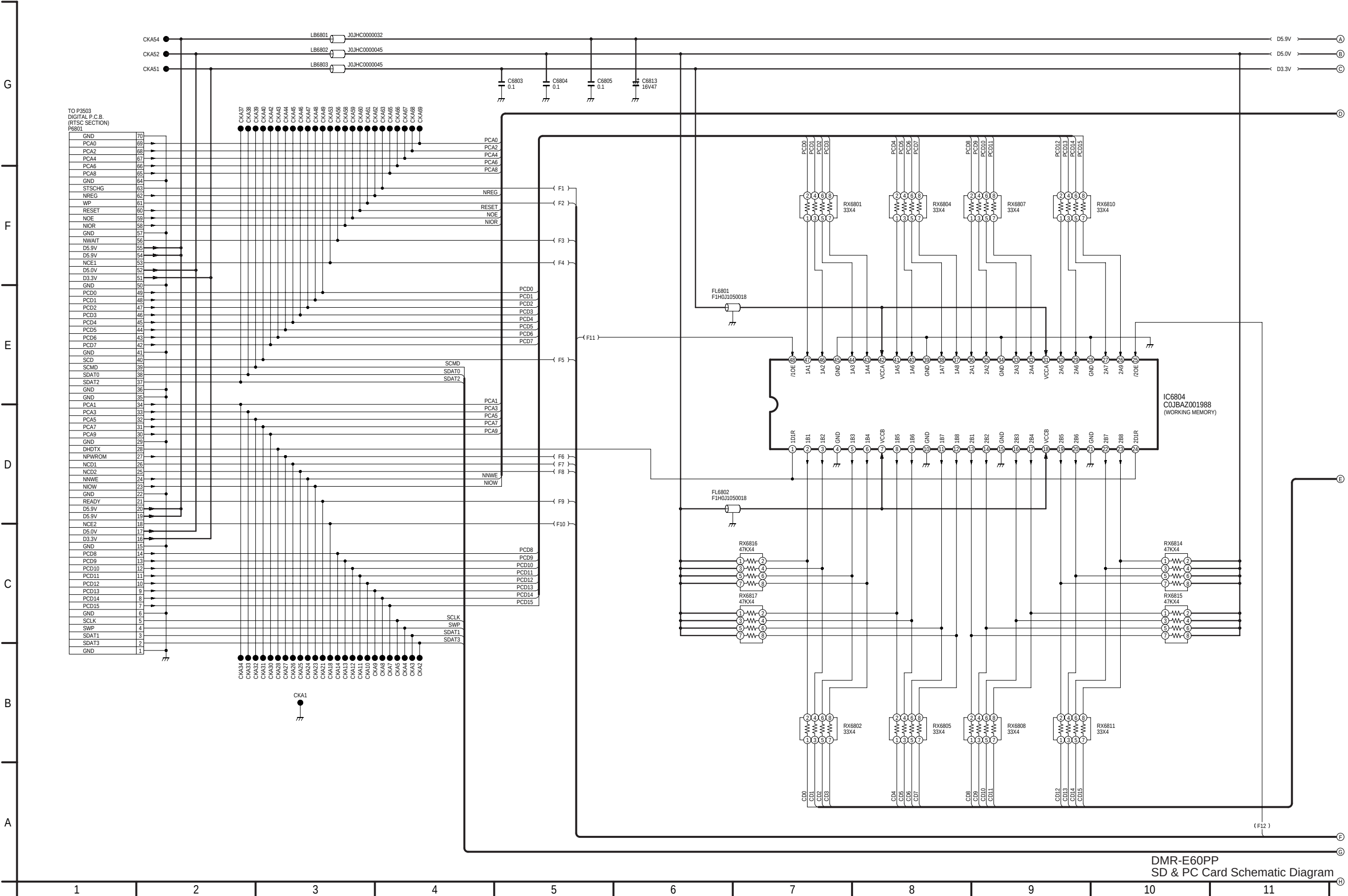
(COMPONENT SIDE)

DMR-E60PP
SD & PC CARD P.C.B. (1/2)
(REP3540BA)

A — **B** — **C** — **D** — **E** — **F**



DMR-E60PP
SD & PC CARD P.C.B. (2/2)
(REP3540BA)



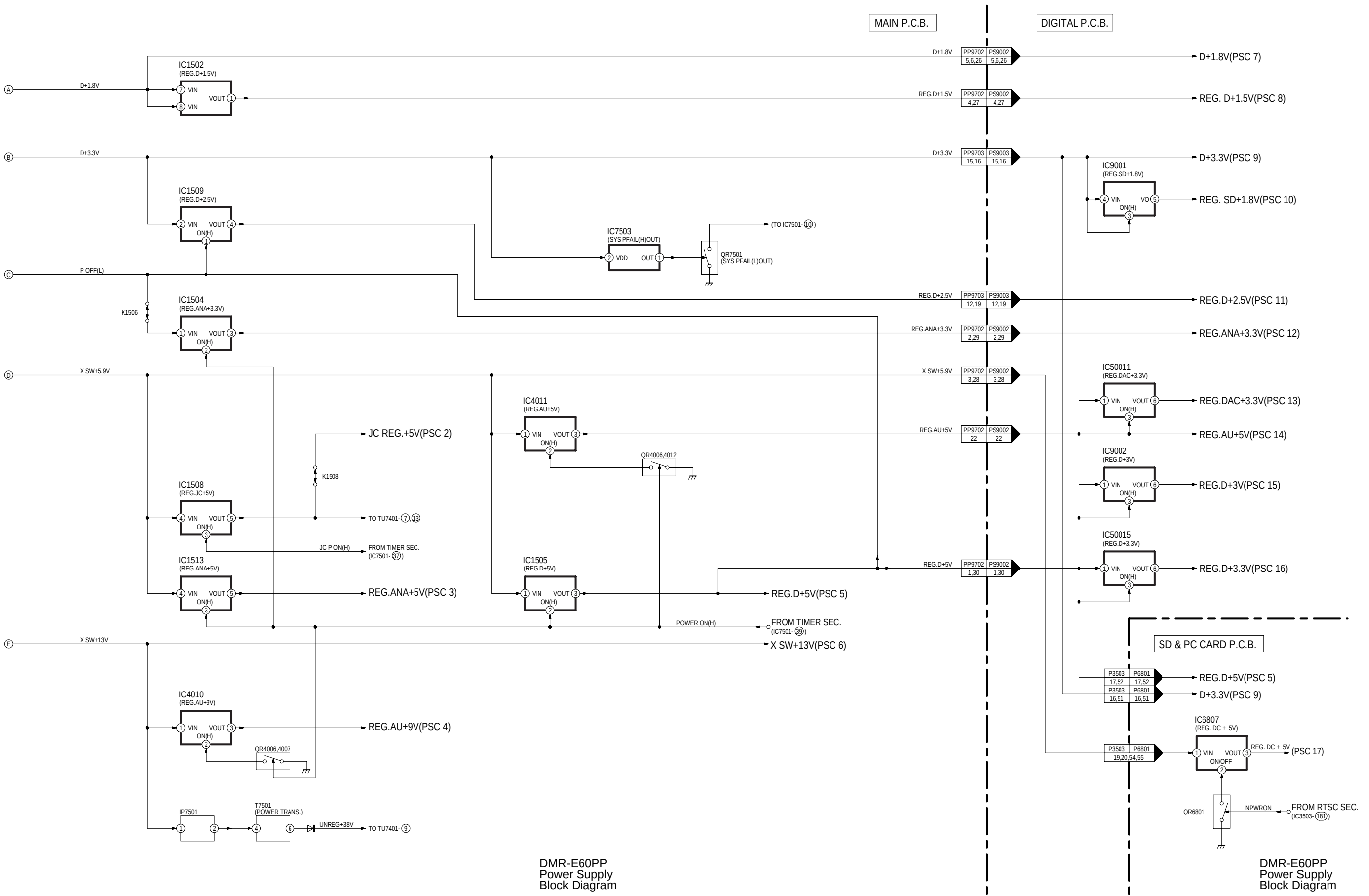
DMR-E60PP
SD & PC Card Schematic Diagram



Main Power Supply P.C.B.

MAIN POWER SUPPLY P.C.B.															
Integrated Circuit		Connector		D1400	C-2	LB1125	C-5	C1202	D-5	C1414	B-3	R1208	D-5	R1410	D-3
IC1150	C-6	P1101	D-9	D1401	B-2	Fuse		C1260	D-4	C1415	A-4	R1209	D-5	R1411	D-3
IC1200	D-5	P1102	A-4	D1402	C-2	F1101		C1261	C-4	C1416	A-4	R1210	D-5	R1412	D-2
IC1302	E-4	P1103	A-3	D1404	D-2	Capacitor		C1262	C-4	Resistor		R1211	E-5	R1413	C-2
IC1303	C-3	P1104	D-1	IC Protector		C1120		C1271	B-4	R1120	D-7	R1270	D-4	R1414	B-2
IC1401	D-2	Diode		IP1400	B-3	C1121		C1272	B-7	R1150	D-6	R1305	E-4	R1415	B-2
IC1410	C-2	D1110	C-7	Transformer		C1124		C1302	E-3	R1151	D-6	R1309	D-3		
Transistor		D1140	B-6	T1150		C-5		C1126	E-8	C1304	D-6	R1310	D-3		
Q1200	D-5	D1151	C-6	Coil		C1127		C1401	C-2	R1154	D-6	R1400	C-3		
Q1201	D-5	D1152	D-6	L1120	C-7	C1143		C1402	C-2	R1155	D-6	R1401	C-3		
Q1270	D-4	D1154	D-6	L1260	C-4	C1150		C1403	C-2	R1156	D-6	R1402	C-3		
Transistor-resistor		D1156	D-6	L1270	B-4	C1151		C1404	C-2	R1157	D-6	R1403	C-3		
QR1200	E-5	D1260	C-5	L1400	B-2	C1152		C1405	C-2	R1200	D-5	R1404	C-2		
QR1301	D-3	D1271	B-5	L1401	B-3	C1153		C1406	C-3	R1201	D-5	R1405	C-3		
QR1302	D-3	D1272	D-4	LB1122	B-6	C1154		C1407	C-3	R1204	D-5	R1407	C-3		
QR1303	D-4	D1273	D-4	LB1123	C-7	C1200		C1409	B-2	R1206	D-5	R1408	B-2		
QR1304	D-4	D1305	E-3	LB1124	C-5	C1201		C1413	C-2	R1207	D-5	R1409	B-2		

Ref No. MODE	IC1150					IC1200					IC1302									
	1	2	3	4	5		1	2	3		1	2	3	4	5					
REC	2.4	1.8	0	13.6	-480		4.7	2.5	0		5.5	5.7	0	5.0	5.0					
PLAY	2.4	1.8	0	13.6	-480		4.7	2.5	0		5.5	5.7	0	5.0	5.0					
STOP	2.4	1.8	0	13.6	-490		4.7	2.5	0		5.5	5.7	0	5.0	5.0					
Ref No. MODE	IC1303					IC1401														
	1	2	3	4	5		1	2	3	4	5									
REC	1.3	0	6.0	6.0	5.0		2.4	2.4	0	1.9	1.3									
PLAY	1.3	0	6.0	6.0	5.0		2.4	2.4	0	1.9	1.3									
STOP	1.3	0	6.0	6.0	5.0		2.4	2.4	0	1.9	1.3									
Ref No. MODE	IC1410																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.4	3.4	3.5	-0.1	0	13.8	0	6.6	0	0	-1.6	-1.5	-1.5	-1.5	0	-0.1	0	13.8	13.7	13.7
PLAY	4.4	3.4	3.5	0	0	13.8	0	6.6	0	0	-1.7	-1.7	-1.7	-1.7	0	-0.1	0	13.9	13.9	13.9
STOP	4.4	3.4	3.5	0	0	13.9	0	6.6	0	0	-1.7	-1.7	-1.7	-1.7	0	-0.1	0	13.9	13.9	13.9
Ref No. MODE	IC1410																			
	21	22	23	24	25	26	27	28	29	30	31	32								
REC	13.7	0	-16.5	0	5.2	-0.1	0.1	4.9	0	1.4	0	2.4								
PLAY	13.9	0	-16.3	0	5.1	0	0.1	4.9	0	1.4	0	2.4								
STOP	13.9	0	-16.2	0	5.0	0	0	4.9	0	1.4	0	2.4								
Ref No. MODE	Q1200					Q1201					Q1270									
	1	2	3	4		1	2	3	4		1	2	3	4	5	6	7	8		
REC	5.7	4.7	0	1.8		0	0	0	6.1		12.6	12.6	12.6	0	12.6	12.6	12.6	12.6		
PLAY	5.7	4.7	0	1.7		0	0	0	6.1		12.7	12.7	12.7	0	12.7	12.7	12.7	12.7		
STOP	5.7	4.7	0	1.8		0	0	0	6.1		12.7	12.7	12.7	0	12.7	12.7	12.7	12.7		
Ref No. MODE	QR1200				QR1301				QR1302				QR1303				QR1304			
	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.9		0	0	5.0		0	5.5	0		0	0	4.9		0	0	4.9	
PLAY	0	0	4.9		0	0	5.0		0	5.5	0		0	0	4.9		0	0	4.9	
STOP	0	0	4.9		0	0	5.0		0	5.5	0		0	0	4.9		0	0	4.9	



DMR-E60PP
Power Supply
Block Diagram

DMR-E60PP
Power Supply
Block Diagram

PSC 1. X SW+5.15V		
Ref. No.	Pin. No.	Schematic Name
IC7501	24,98	Timer (Main)
IC7504	8	
IC7505	2	

PSC 2. JC REG.+5V		
Ref. No.	Pin. No.	Schematic Name
IC3003	2,15,27	Video I/O (Main)
	41,45	
IC7405	8	Main Net (Main)

PSC 3. REG.ANA+5V		
Ref. No.	Pin. No.	Schematic Name
IC3005	6,11	Video I/O (Main)

PSC 4. REG.AU+9V		
Ref. No.	Pin. No.	Schematic Name
IC4002	16	Audio Main (Main)
IC4003	8	
IC4009	8	
IC4012	8	

PSC 5. REG.D+5V		
Ref. No.	Pin. No.	Schematic Name
IC3002	22	Video I/O (Main)
IC6802	8	PC Card
IC6803	7,18,31,42	
IC6804	7,18	

PSC 6. X SW+13V		
Ref. No.	Pin. No.	Schematic Name
IC7507	8	Timer (Main)

PSC 7. D+1.8V		
Ref. No.	Pin. No.	Schematic Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
IC3402	7,19,32,44	AV Encoder (Digital)
	59,71,84,96	
	111,123,136	
	148,163,175	
IC37001	188,198	
	17,47,64,81	1394/DV (Digital)
	92,126,133	
	146,179,212	

PSC 8. REG.D+1.5V		
Ref. No.	Pin. No.	Schematic Name
IC50003	12,30,48	AV Decoder (Digital)
	69,98,127	
	135,172,186	

PSC 9. D+3.3V		
Ref. No.	Pin. No.	Schematic Name
IC3201	1,7,13,25	AV Input (Digital)
	38,44	
IC3202	7,12,19,25	
	30,37,42,48	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3204	5	
IC3205	5	
IC3401	1,3,9,15,29	AV Encoder (Digital)
	35,41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	46,50,57,66	
	75,83,91	
	100,110,118	
	126,132,139	
	145,152,160	
	167,172,181	
	185,192,199	
	202,205	
IC3501	1,3,9,14,27	RTSC (Digital)
	43,49	
IC3502	1,3,9,14,27	
	43,49	
IC3503	7,18,33,48	
	63,75,81,93	
	104,114,128	
	142,150,157	
	168,177,187	
	198,206,213	
	216,222,229	
	237,241,245	
IC37001	246,257,268	
	280,287	
	10,19,29,37	1394/DV (Digital)
	43,50,56,69	
	76,87,97	
	108,118,132	
	141,153,171	
	183,190,197	
	207,216	
IC37002	25,26,61,62	AV Input (Digital)
IC37006	19	
IC4404	5	

PSC 9. D+3.3V		
Ref. No.	Pin. No.	Schematic Name
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	1,3,9,14 27,43,49	
IC50003	5,15,26,39	
	52,58,66,75	
	89,103,131	
	144,152,157	
	165,175,184	
	194,203	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50009	20	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6703	23,44	
IC6801	8	PC Card
IC6804	31,42	
IC6805	8	
IC6806	14	
IC6810	8	

PSC 10. REG.SD+1.8V		
Ref. No.	Pin. No.	Schematic Name
IC6004	21,55,75	Syscon (Digital)
	111,122,153	
	184,203	

PSC 11. REG.D+2.5V		
Ref. No.	Pin. No.	Schematic Name
IC3503	14,30,59,91	RTSC (Digital)
	124,149,184	
	199,227,260	
	281	

PSC 12. REG.ANA+3.3V		
Ref. No.	Pin. No.	Schematic Name
IC3203	2,11,12,21	AV Input (Digital)
	26,30	
IC3402	30	AV Encoder (Digital)
IC37002	30,31,42,51	1394/DV (Digital)
	52,56	
IC50003	105,112,118	AV Decoder (Digital)

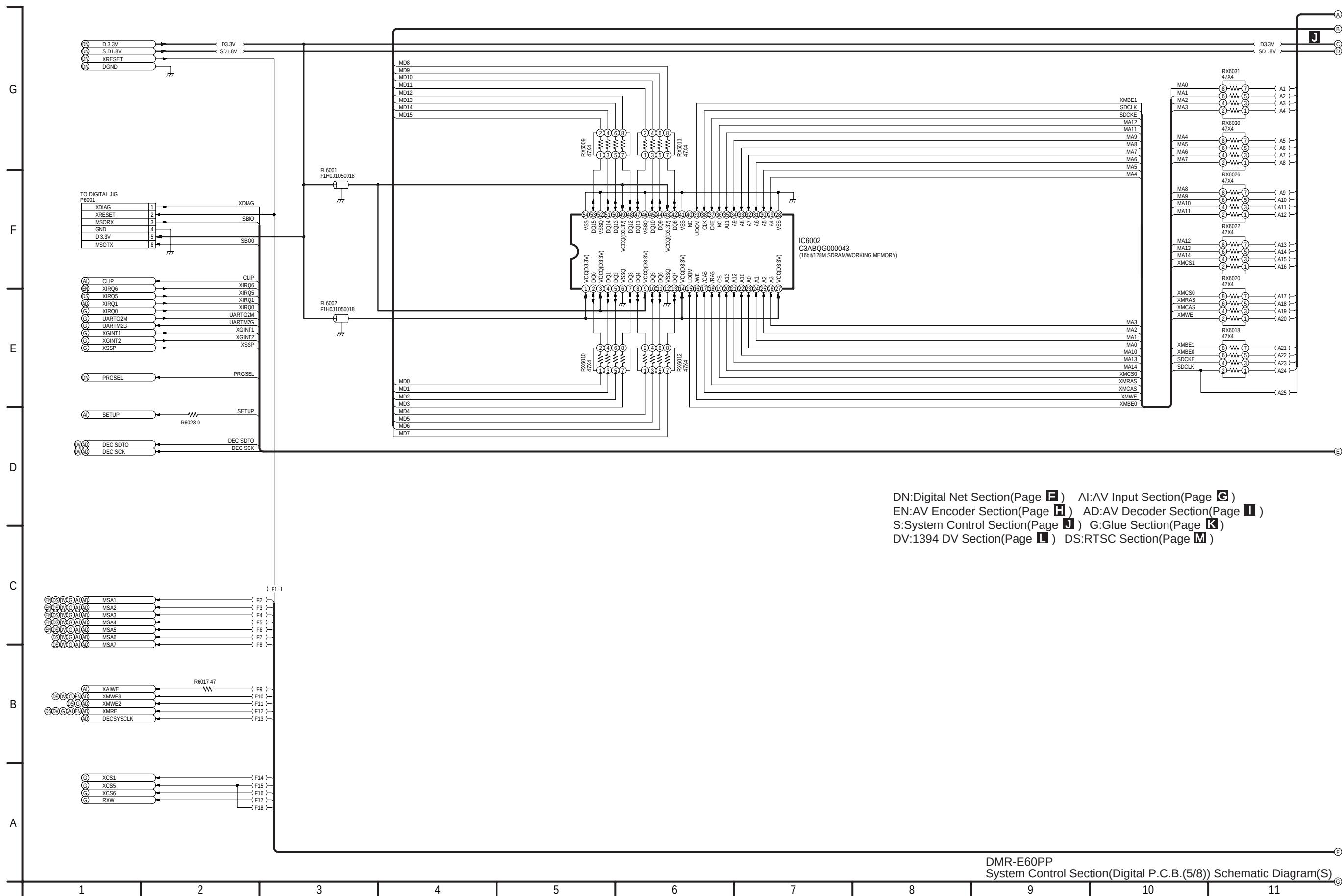
PSC 13. REG.DAC+3.3V		
Ref. No.	Pin. No.	Schematic Name
IC4403	14	AV Input (Digital)
IC50010	5	AV Decoder (Digital)

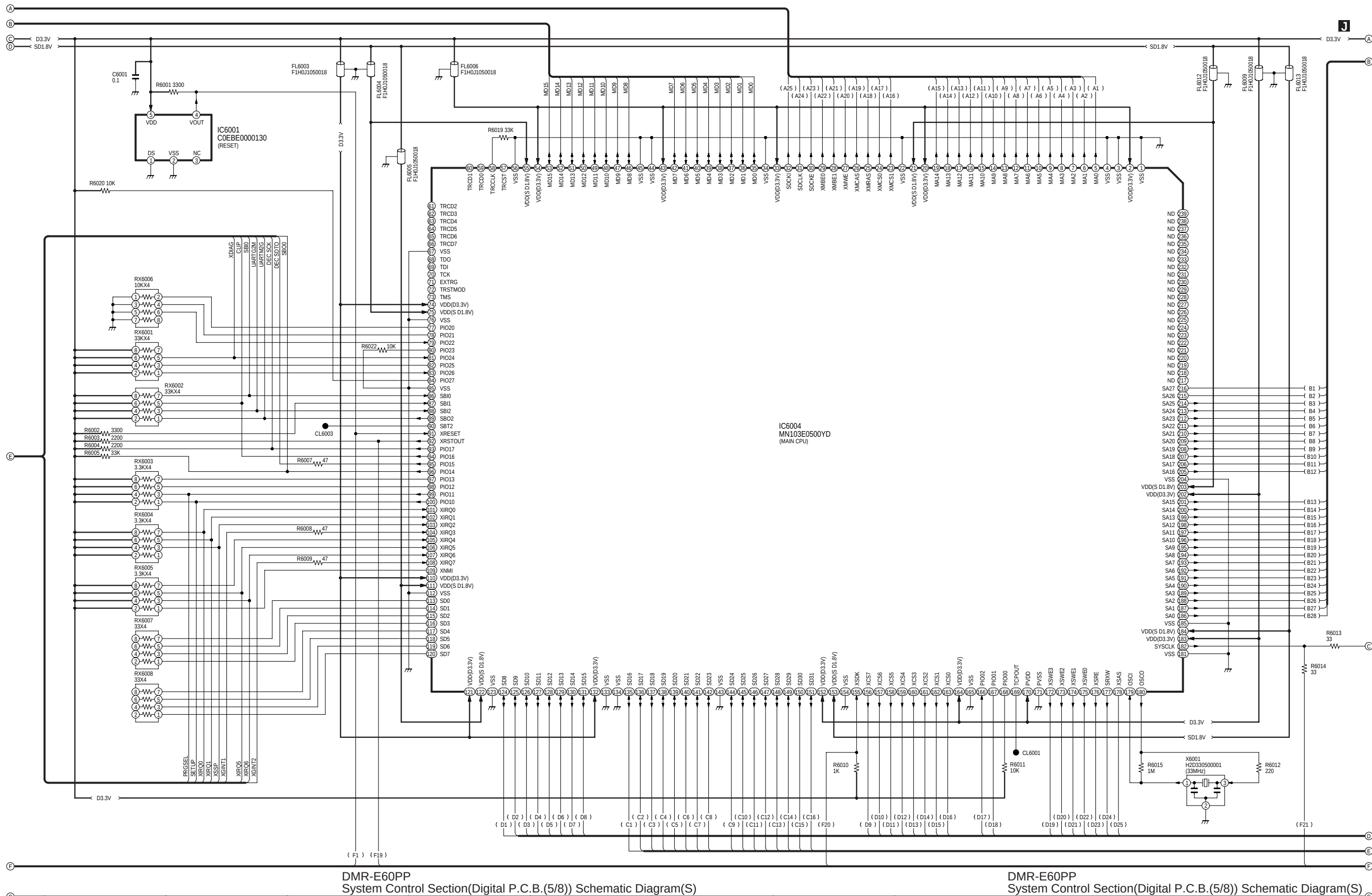
PSC 14. REG.AU+5V		
Ref. No.	Pin. No.	Schematic Name
IC4402	8	AV Input (Digital)
IC4403	5	
IC50010	6	AV Decoder (Digital)

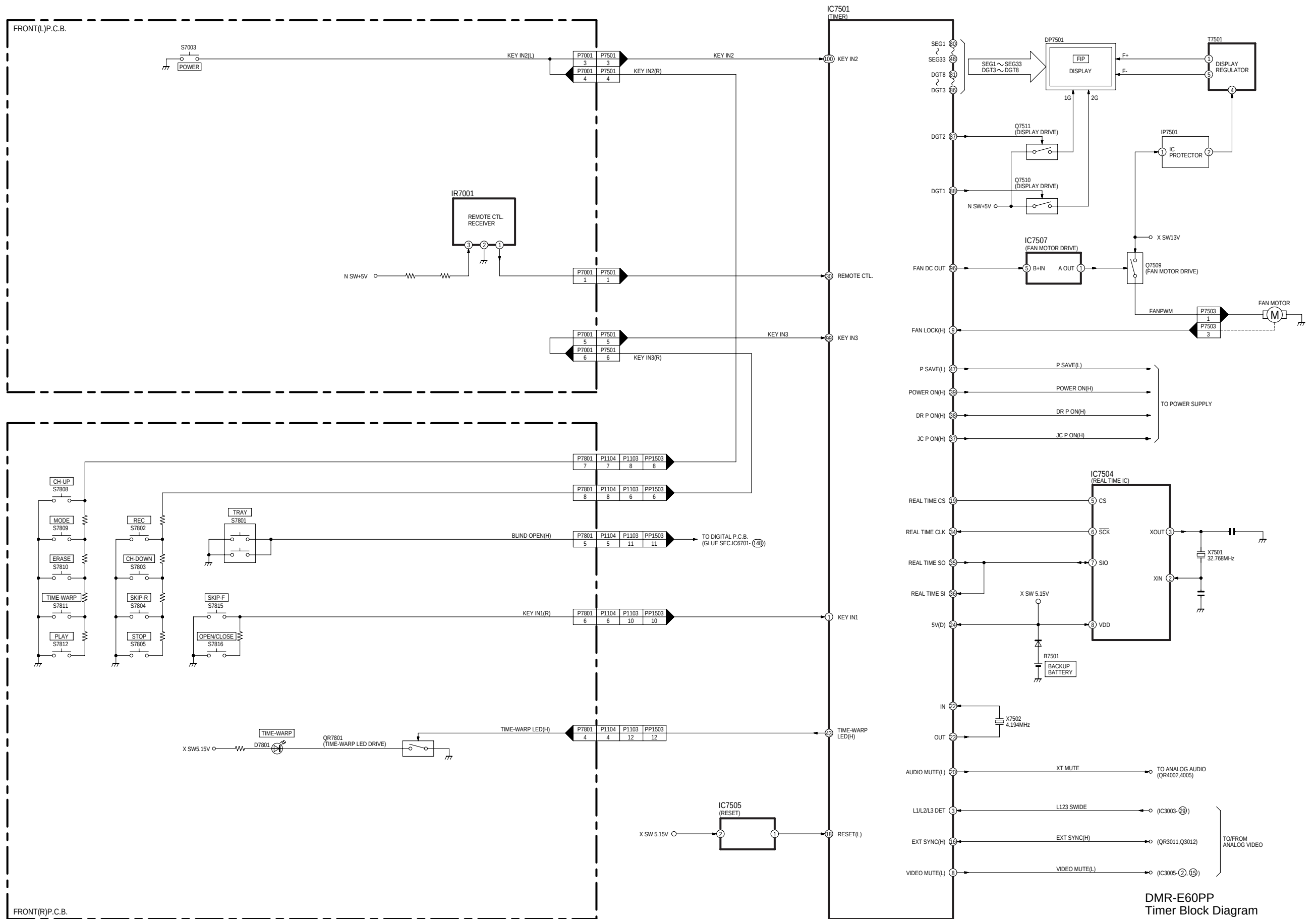
PSC 15. REG.D+3V		
Ref. No.	Pin. No.	Schematic Name
IC37003	12,31,43	1394/DV (Digital)
IC37008	5	
IC37011	5	

PSC 16. REG.D+3.3V		
Ref. No.	Pin. No.	Schematic Name
IC50001	5,6	AV Decoder (Digital)

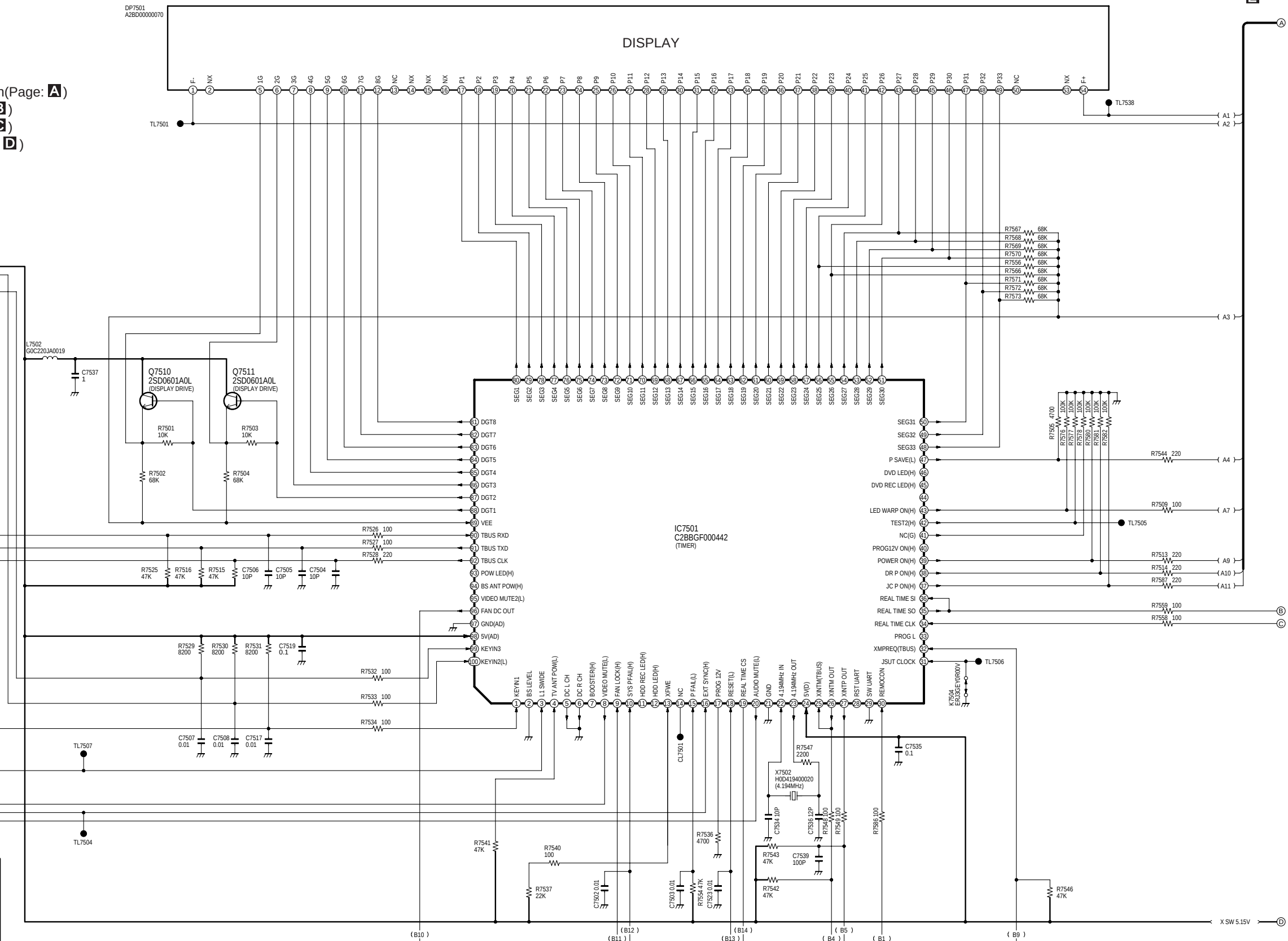
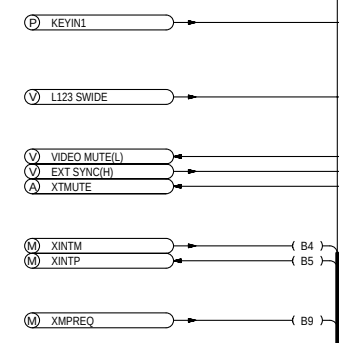
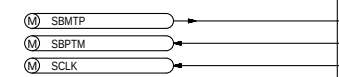
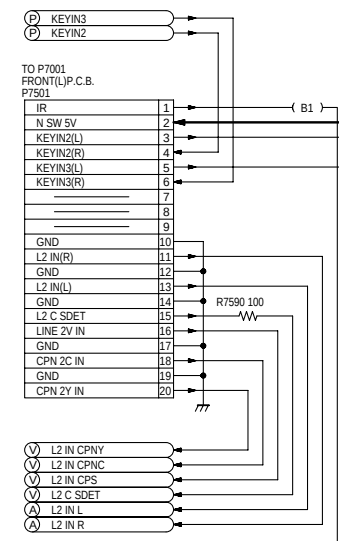
PSC 17. REG.DC+5V		
Ref. No.	Pin. No.	Schematic Name
IC6809	2	PC Card

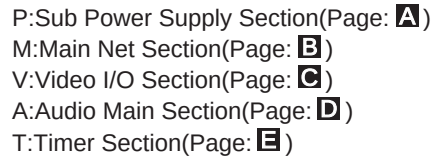






P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)





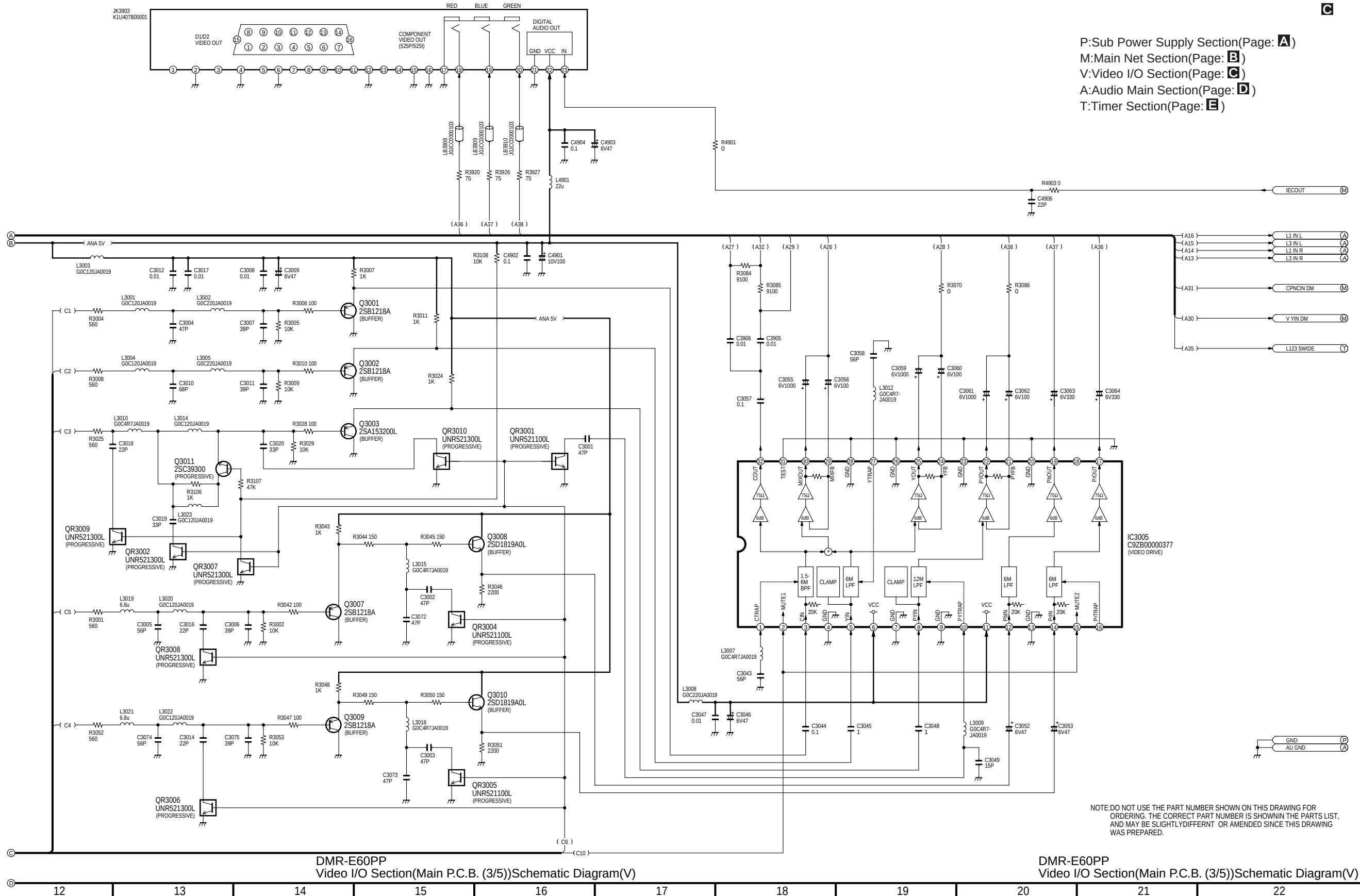
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60PP
Timer Section(Main P.C.B. (5/5))Schematic Diagram(T)

DMR-E60PP
Timer Section(Main P.C.B. (5/5))Schematic Diagram(T)

C

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)



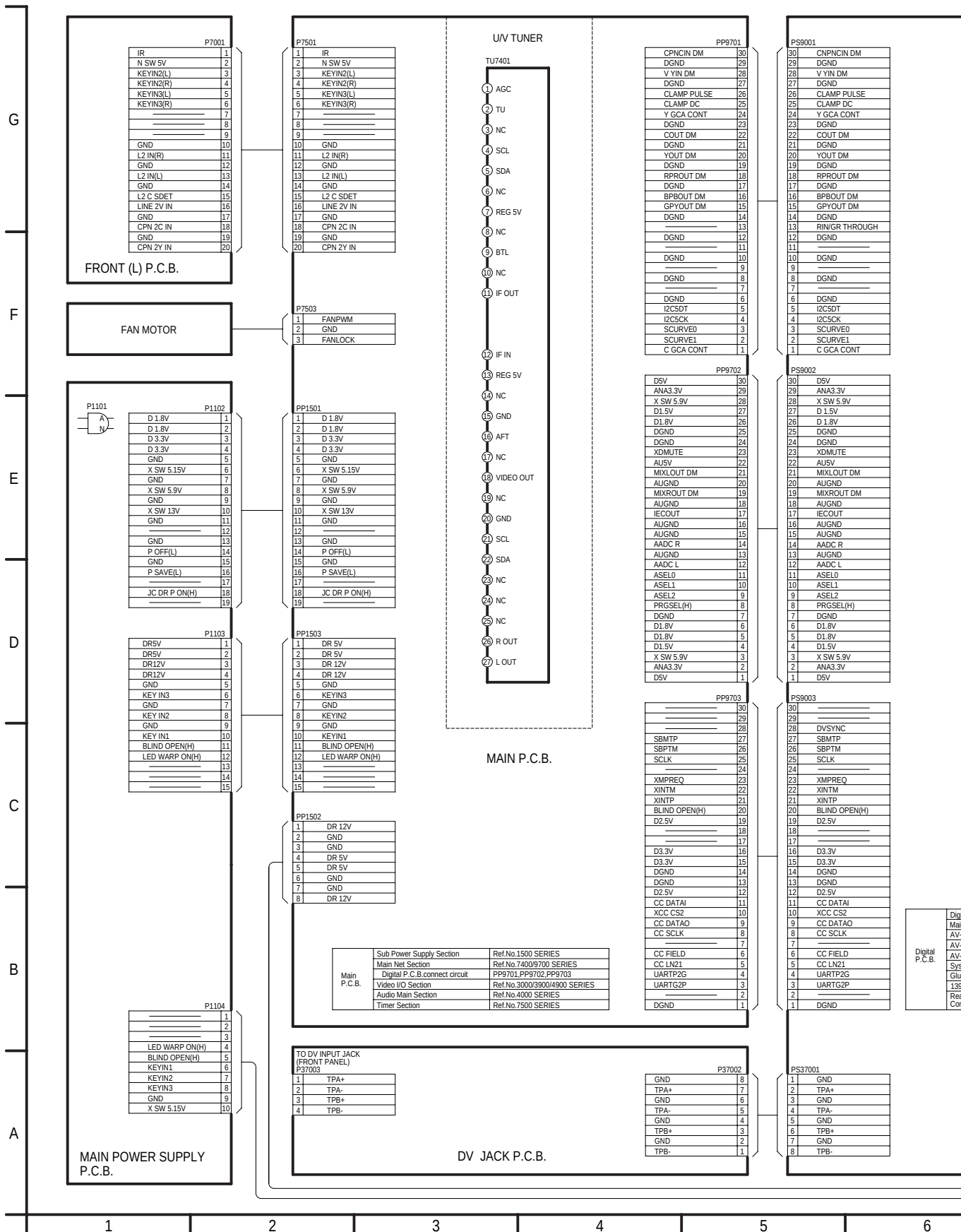
Ref No.	IC1502									IC1504						IC1505				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	1.5	1.5	3.3	3.3	0	0	1.8	1.8		5.0	4.8	3.3	3.3	0		5.9	5.0	5.0	5.0	0
PLAY	1.5	1.5	3.3	3.3	0	0	1.8	1.8		5.0	4.8	3.3	3.3	0		5.9	5.0	5.0	5.0	0
STOP	1.5	1.5	3.3	3.3	0	0	1.9	1.9		5.0	4.8	3.3	3.3	0		5.9	5.0	5.0	5.0	0
Ref No.	IC1508					IC1509					IC1513									
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5			
REC	1.2	0	4.9	5.9	4.9		5.9	3.3	0	2.5	2.5		1.2	0	4.8	5.9	5.0			
PLAY	1.2	0	4.9	5.9	4.9		5.9	3.3	0	2.5	2.5		1.2	0	4.8	5.9	5.0			
STOP	1.2	0	4.9	5.9	4.9		5.9	3.3	0	2.5	2.5		1.2	0	4.8	5.9	5.0			
Ref No.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	0	0	0	0	0	0	5.0	5.0	5.0	0.1	0	0	0	0	0	0	2.1	2.0
PLAY	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.2	2.0
STOP	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.1	2.0
Ref No.	IC3002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	5.0	1.1	2.0	0.2	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
PLAY	0	5.0	1.1	2.0	0.2	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
STOP	0	5.0	1.1	2.0	0.2	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
Ref No.	IC3002																			
MODE	41	42																		
REC	0	0																		
PLAY	0	0																		
STOP	0	0																		
Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.5	4.9	1.8	0	1.8	4.7	1.5	0	0.1	2.7	0	1.5	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
PLAY	1.5	4.9	2.2	0	1.8	4.7	1.5	0	0.1	2.7	0	1.5	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
STOP	1.5	4.9	1.8	0	1.8	4.7	1.5	0	0.1	2.7	0	1.5	4.7	1.5	4.9	0.1	2.7	0.1	1.5	4.7
Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.2
PLAY	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
STOP	1.5	0	0.1	2.7	0	1.5	4.9	2.7	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.2
Ref No.	IC3003																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	4.9	1.6	0	1.6	4.9	0.2	1.9	2.2	1.7	0.7	1.8	1.8								
PLAY	4.9	1.6	0	1.6	4.9	0.2	1.8	2.2	1.7	0.7	1.8	1.8								
STOP	4.9	1.6	0	1.6	4.9	0.2	1.9	2.2	1.7	0.7	1.8	1.8								

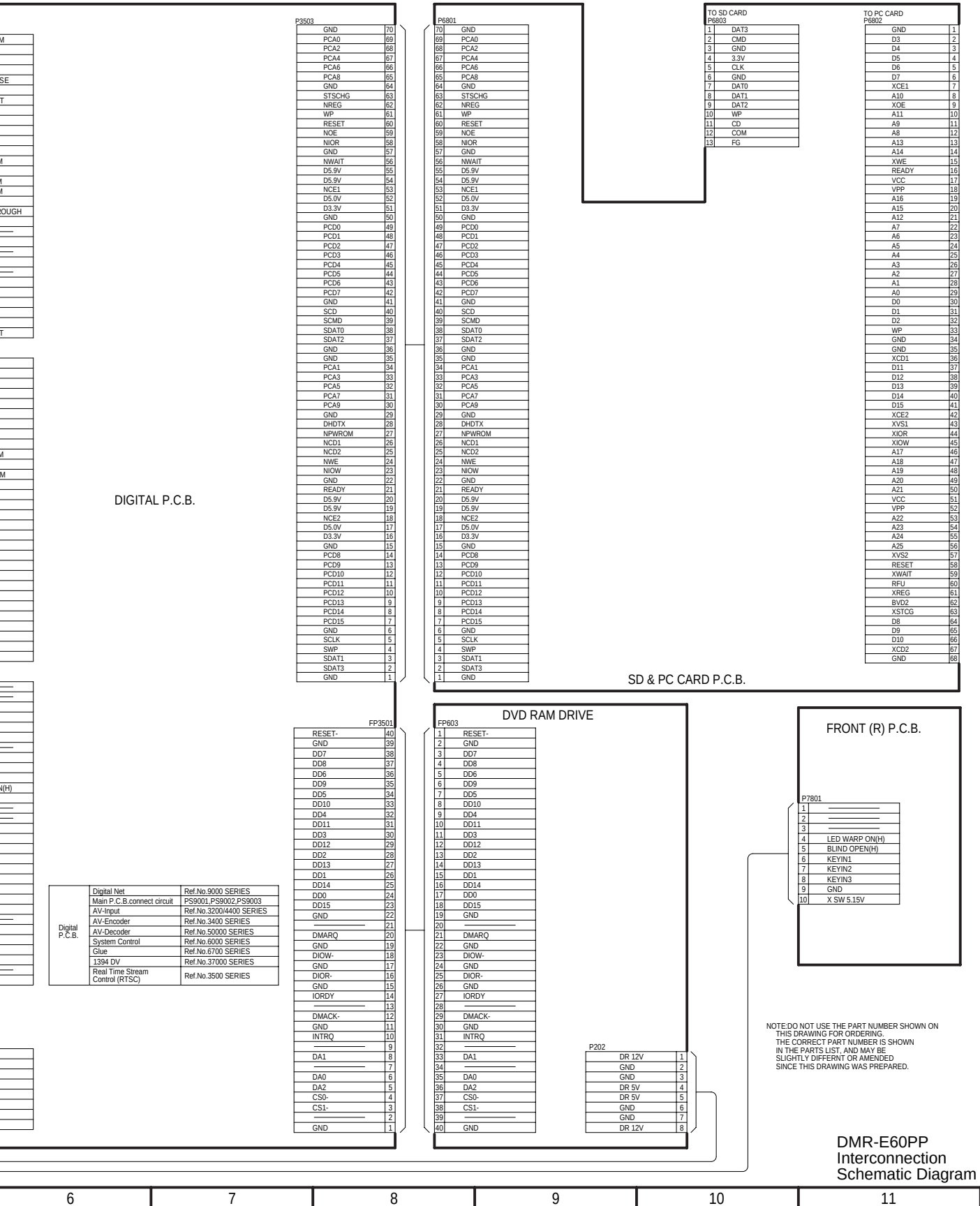
Ref No.	IC3005																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
REC	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.1	2.3	0	2.3	0	
PLAY	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.2	2.3	0	2.3	0	
STOP	2.0	4.9	2.7	0	2.5	4.9	0	2.5	0	1.9	4.9	2.8	0	2.8	4.9	2.1	2.3	0	2.3	0	
Ref No.	IC3005																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32									
REC	2.0	2.1	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3									
PLAY	2.0	2.0	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3									
STOP	2.0	2.1	0	2.1	2.1	0	2.0	0	2.1	2.1	0	2.3									
Ref No.	IC4002																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
REC	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	11.9	6.0	6.0	6.0	6.0	6.0	12.0					
PLAY	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	11.9	6.0	6.0	6.0	6.0	6.0	12.0					
STOP	6.0	6.0	6.0	6.0	6.0	0	0	0	11.9	11.9	6.0	6.0	6.0	6.0	6.0	12.0					
Ref No.	IC4003								IC4009												
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8				
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0				
Ref No.	IC4010					IC4011					IC4012										
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8	
REC	13.1	13.8	0	12.0	12.0		5.7	5.9	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0	
PLAY	13.2	13.9	0	12.0	12.0		5.7	5.9	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0	
STOP	13.2	13.9	0	12.0	12.0		5.7	5.9	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0	
Ref No.	IC7405																				
MODE	1	2	3	4	5	6	7	8													
REC	0	2.4	1.8	0	2.8	2.4	3.2	4.9													
PLAY	0	2.4	1.8	0	2.8	2.4	3.2	4.9													
STOP	0	2.4	1.8	0	2.8	2.4	3.3	4.9													
Ref No.	IC7501																				
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
REC	4.9	0	4.6	4.9	0	0	0	4.9	2.5	0	0	0	4.9	0	4.9	0.1	0	4.9	0.5	4.9	
PLAY	4.9	0	4.6	4.9	0	0	0	4.9	2.5	0	0	0	4.9	0	4.9	0.1	0	4.9	0.5	4.9	
STOP	4.9	0	4.6	4.9	0	0	0	4.9	2.5	0	0	0	4.9	0	4.9	0.1	0	4.9	0.5	4.9	
Ref No.	IC7501																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
REC	0	2.2	2.4	4.9	5.0	5.0	4.9	0	0	4.8	0	5.0	4.9	4.8	4.5	4.5	4.9	4.9	4.9	0	
PLAY	0	2.2	2.4	4.9	5.0	5.0	4.9	0	0	4.8	0	5.0	4.9	4.8	4.5	4.5	4.9	4.9	4.9	0.1	
STOP	0	2.3	2.4	4.9	5.0	5.0	4.9	0	0	4.8	0	5.0	4.9	4.8	4.5	4.5	4.9	4.9	4.9	0	
Ref No.	IC7501																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
REC	0	0	0	0	4.9	4.9	4.9	-25.1	-21.4	-28.8	-17.7	-21.4	-17.1	-25.0	-25.1	-20.9	-25.0	-25.0	-25.0	-17.1	
PLAY	0	0	-0.2	0	0	4.9	4.9	-25.0	-25.0	-28.7	-17.7	-20.9	-17.1	-25.0	-20.9	-25.0	-24.9	-28.6	-24.9	-17.5	
STOP	0	0	0	0	0	4.9	4.9	-25.1	-25.0	-28.7	-21.4	-28.7	-17.1	-25.0	-21.3	-20.8	-25.0	-25.0	-25.0	-25.0	
Ref No.	IC7501																				
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
REC	-17.1	-9.2	-17.1	-17.6	-16.1	-17.6	-12.4	-17.1	-17.1	-9.2	-12.4	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-13.4	-16.6	-21.3	
PLAY	-21.3	-20.7	-17.0	-17.5	-21.3	-21.2	-12.4	-17.5	-17.1	-17.0	-8.2	-24.9	-28.6	-28.6	-21.2	-24.9	-28.6	-21.3	-8.9	-24.9	
STOP	-17.1	-17.5	-16.5	-24.9	-12.9	-24.9	-12.9	-24.9	-17.1	-17.5	-12.8	-24.9	-25.0	-25.0	-25.0	-25.0	-25.0	-24.9	-17.1	-24.9	
Ref No.	IC7501																				
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	
REC	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-25.3	-25.3	-29.2	5.0	4.9	4.9	0	0	4.9	1.7	0	4.9	4.9	4.9	
PLAY	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-25.2	-25.2	-29.2	5.0	4.8	4.9	0	0	4.9	1.7	0	4.9	4.9	4.9	
STOP	-25.0	-25.0	-25.0	-25.0	-25.0	-25.0	-25.2	-25.2	-29.1	5.0	0	4.9	0	0	4.9	1.7	0	4.9	4.9	4.9	
Ref No.	IC7503					IC7504					IC7505										
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5	
REC	2.1	3.3	0	0	0		0.1	0.3	0.5	0	0.5	4.8	4.5	4.9		4.9	4.9	0	0	0	
PLAY	2.1	3.3	0	0	0		0	0	0.5	0	0.5	4.8	4.5	4.9		4.9	4.9	0	0	0	
STOP	2.1	3.3	0	0	0		0	0.1	0.5	0	0.5	4.8	4.5	4.9		4.9	4.9	0	0	0	
Ref No.	IC7507																				
MODE	1	2	3	4	5	6	7	8													
REC	5.6	1.7	1.7	0	1.7	1.7	1.7	13.8													
PLAY	5.6	1.7	1.7	0	1.7	1.7	1.7	13.9													
STOP	5.6	1.8	1.7	0	1.7	1.7	1.8	13.9													
Ref No.	Q3001				Q3002				Q3003				Q3004				Q3005				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	2.1	0	1.4		1.8	0	1.1		1.9	0	1.1		2.2	0	1.6		3.4	4.8	3.4		
PLAY	2.1	0	1.4		1.8	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.8	3.4		
STOP	2.1	0	1.4		1.8	0	1.1		1.9	0	1.1		2.2	0	1.6		3.4	4.8	3.4		
Ref No.	Q3006				Q3007				Q3008				Q3009				Q3010				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	4.9	0.5	4.8		1.7	0	1.0		1.1	4.9	1.7		1.7	0	1.0		1.1	4.9	1.7		
PLAY	4.9	0.5	4.8		1.7	0	1.0		1.1	4.9	1.7		1.7	0	1.0		1.1	4.9	1.7		
STOP	4.9	0.5	4.8		1.7	0	1.0		1.1	4.9	1.7		1.7	0	1.0		1.1	4.9	1.7		
Ref No.	Q3011				Q3012				Q3015				Q4004				Q4006				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		4.9	0	4.9		0	0	-0.2		
PLAY	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		4.9	-0.1	4.9		0	0	-0.2		
STOP	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		4.9	-0.3	4.9		0	0	-0.3		
Ref No.	Q4007				Q4008				Q4009				Q7401				Q7501				
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B		
REC	0	0	-0.2		0	0	-0.2		0	0	-0.2		2.7	0	2.0		0	8.0	-1.2		
PLAY	0	0	-0.2		0	0	-0.2		0	0	-0.2		2.7	0	2.1		0	8.0	-1.2		
STOP	0	0	-0.1		0	0	-0.3		0	0	-0.1		2.7	0	2.1		0	7.9	-1.2		

[illegible]

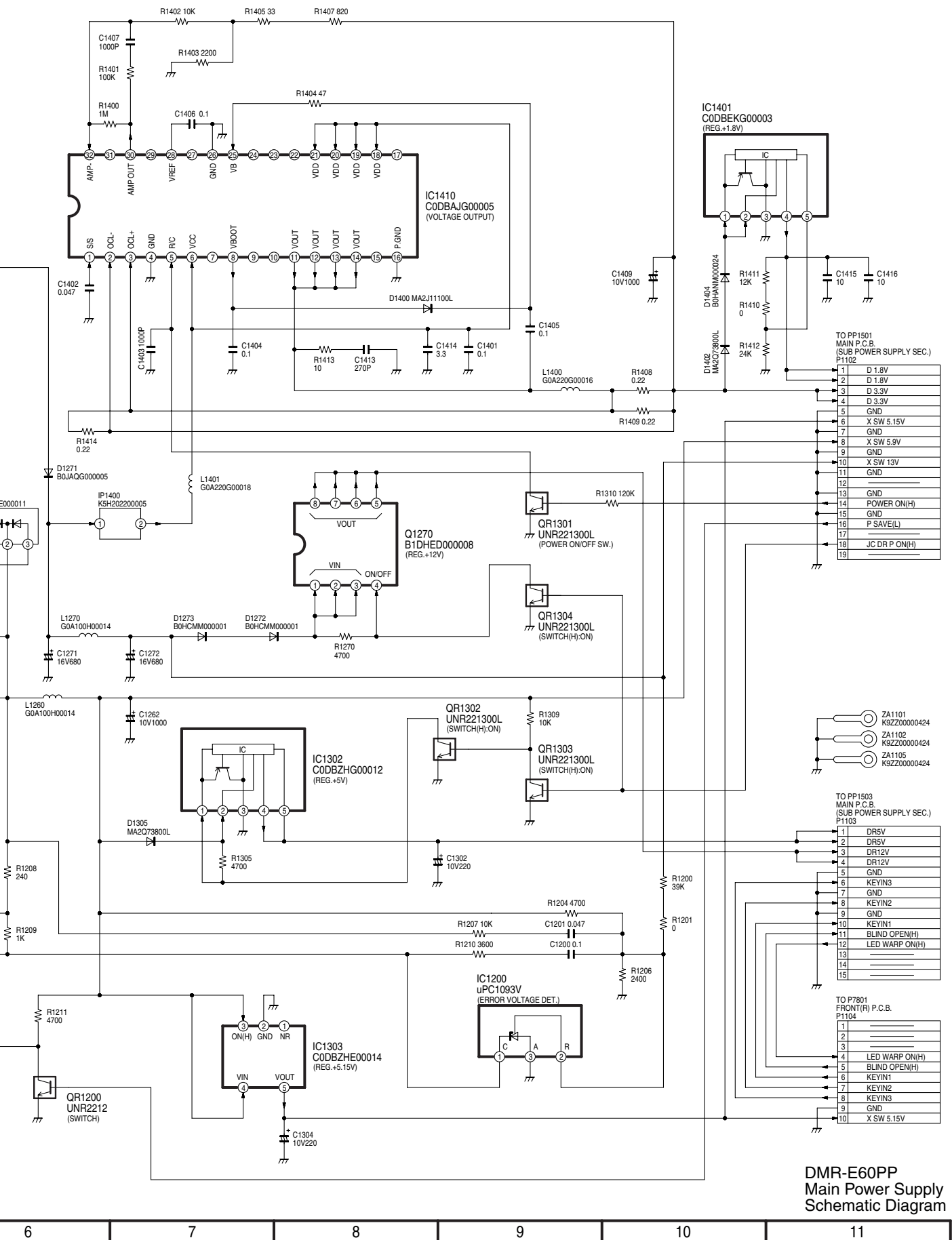
[illegible]

14.1. Interconnection Schematic Diagram



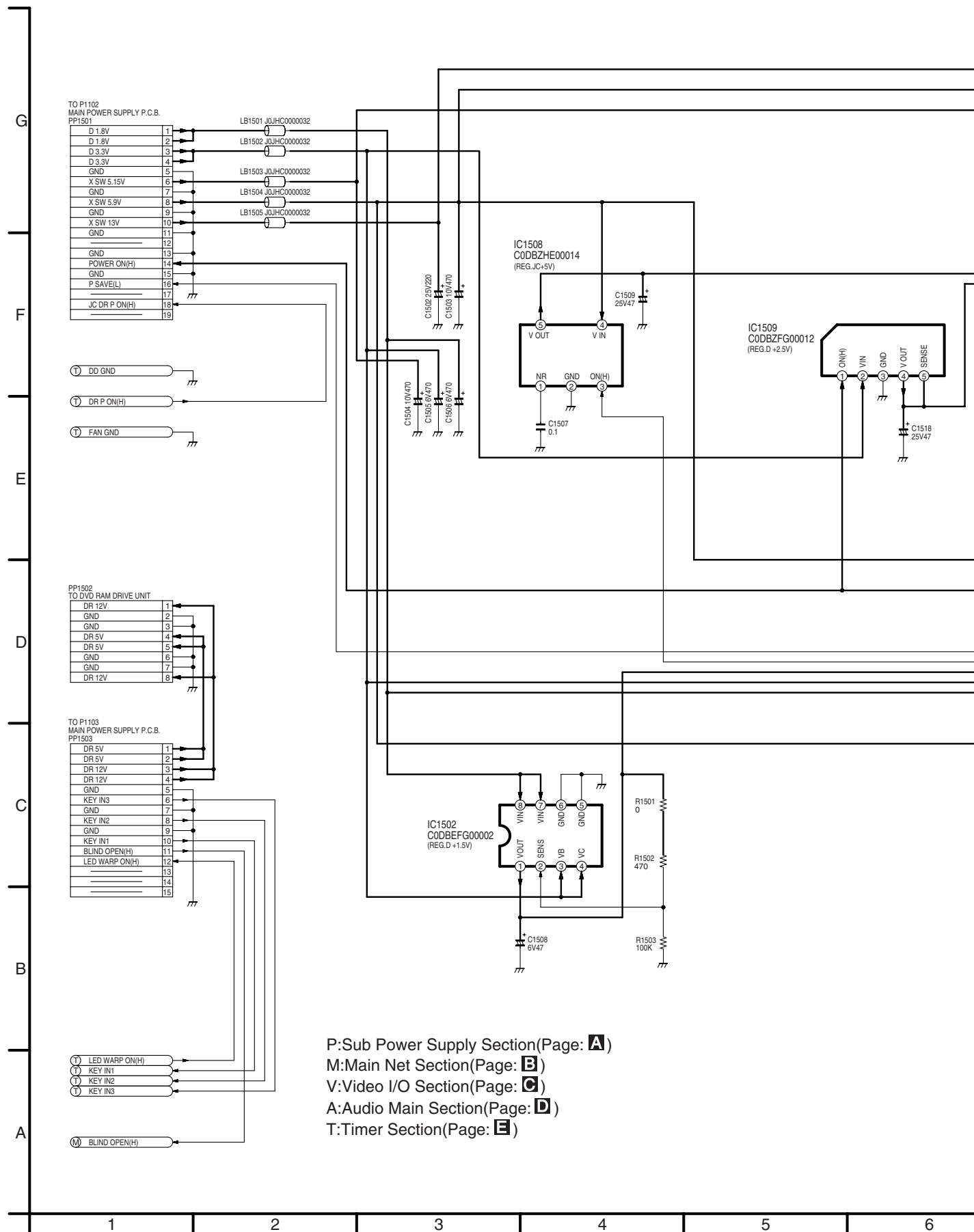


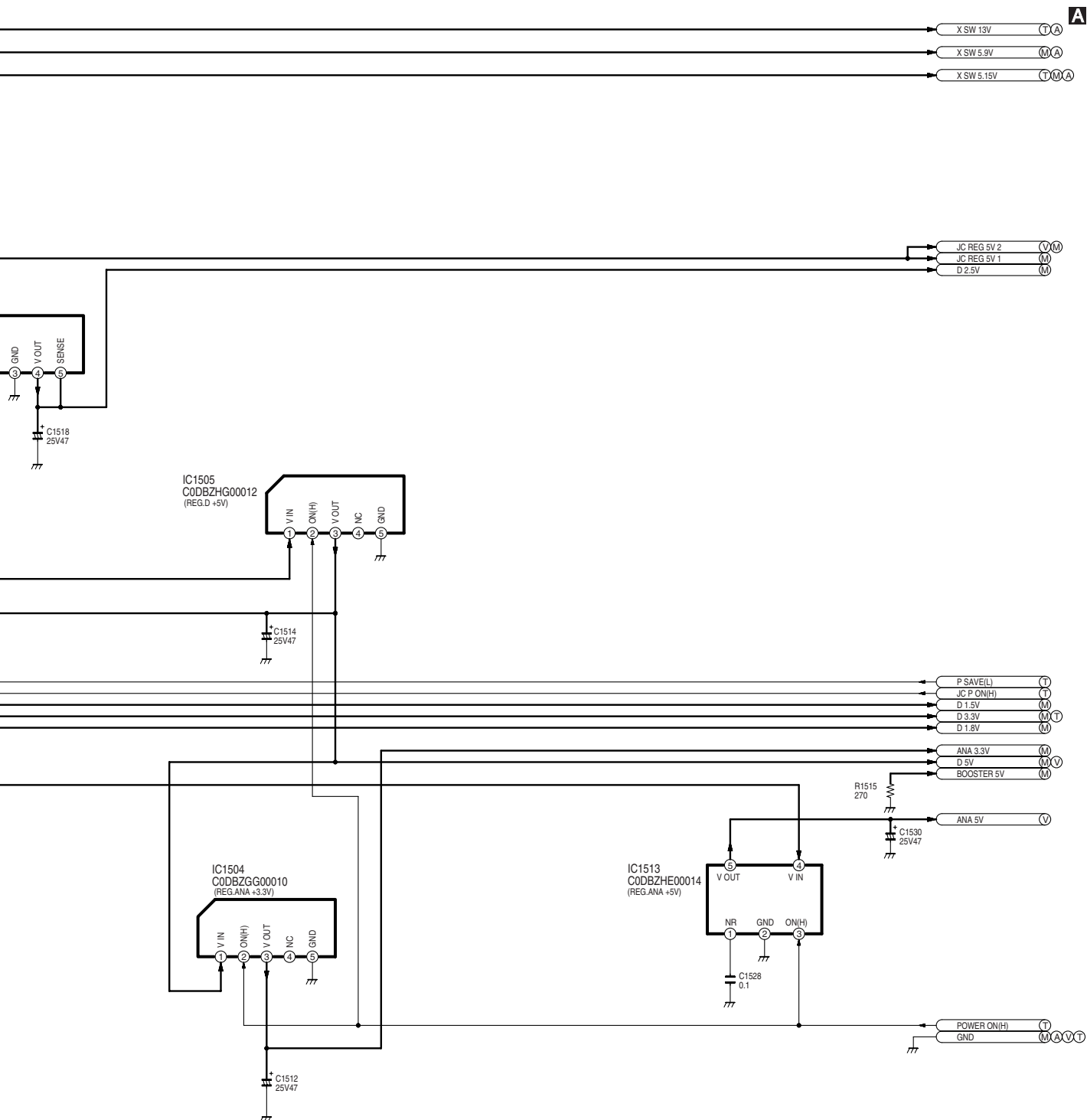




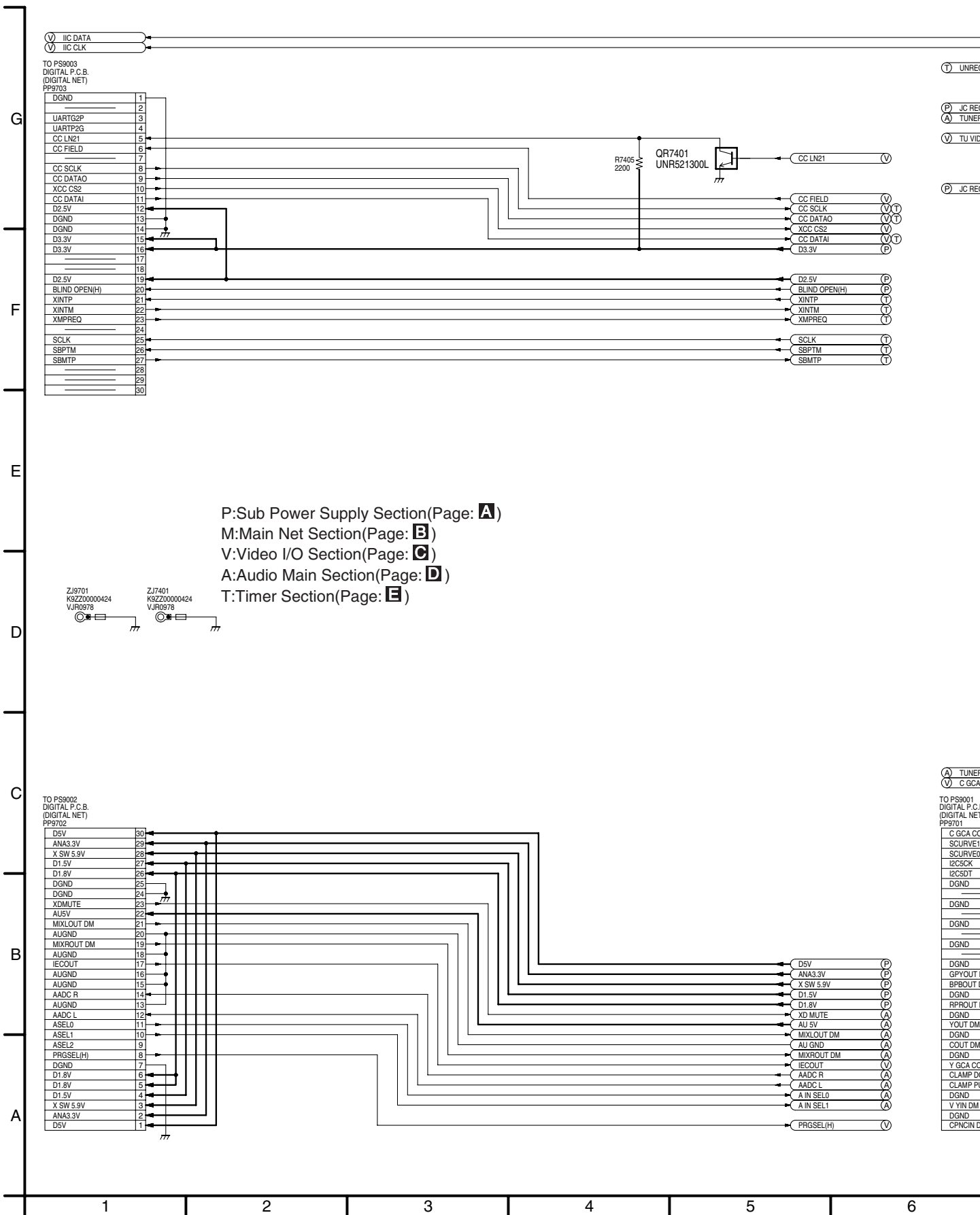
DMR-E60PP
Main Power Supply
Schematic Diagram

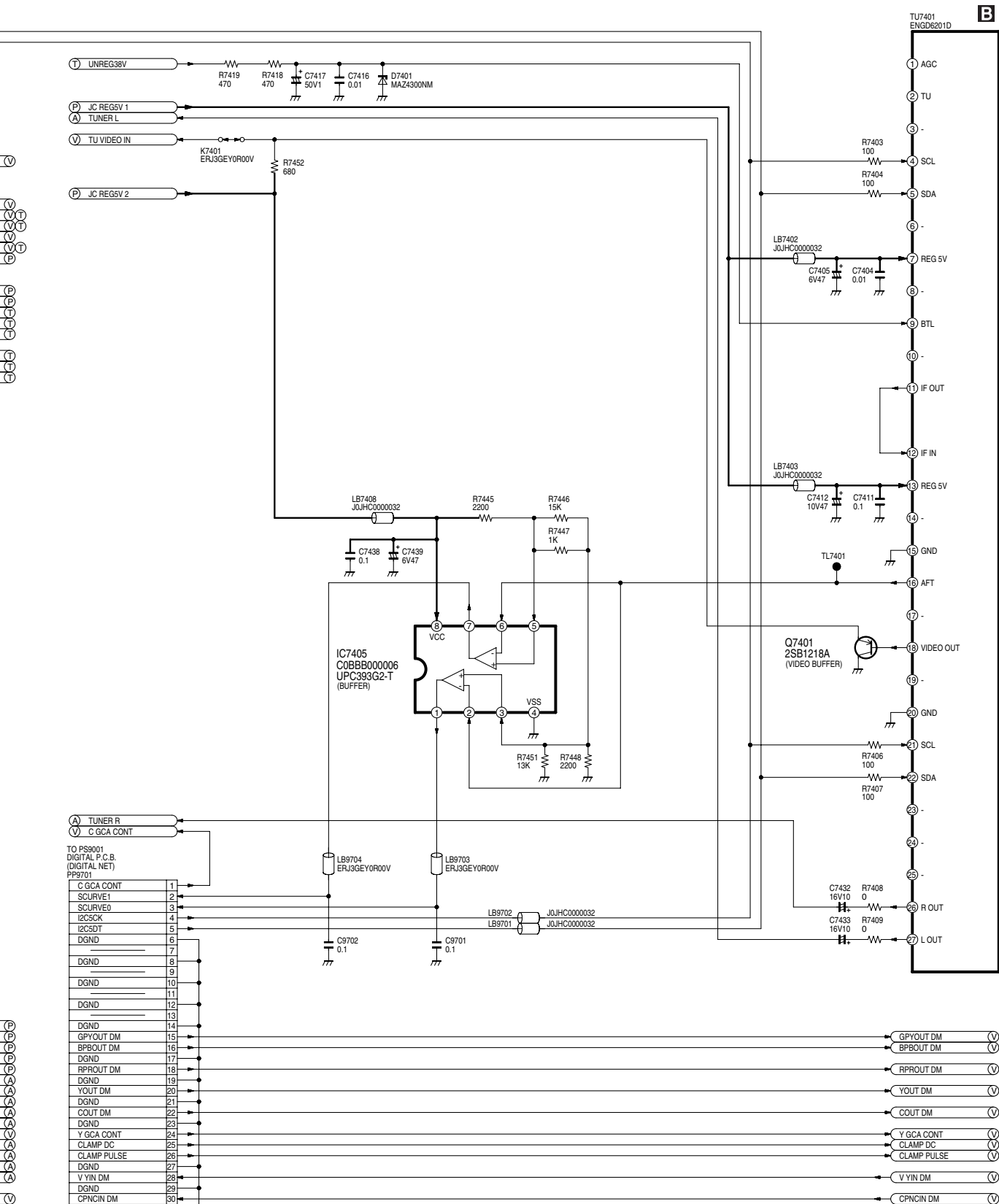
14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)





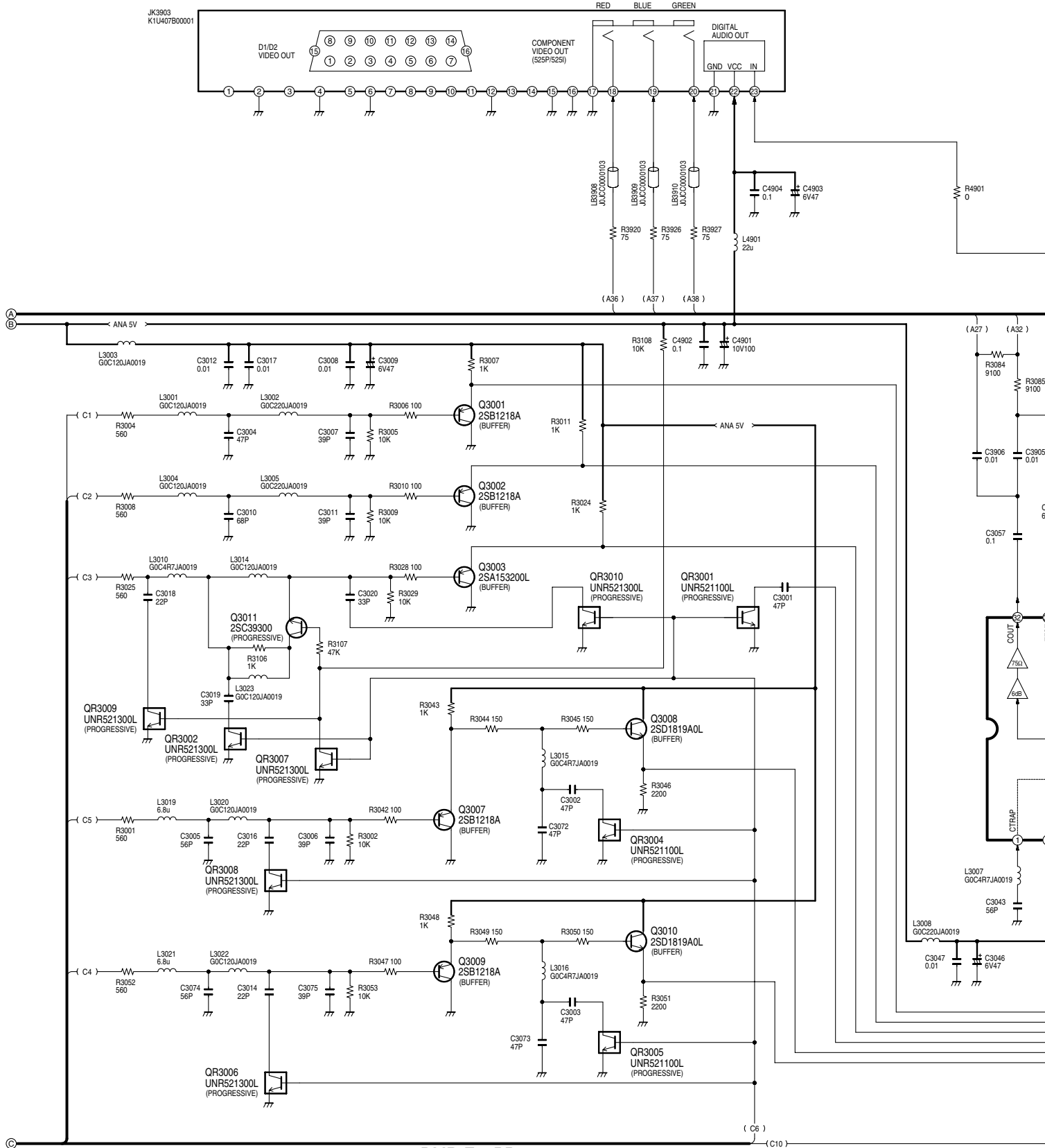
14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)





NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECTPART
NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED
SINCE THIS DRAWING WAS PREPARED.





DMR-E60PP
Video I/O Section(Main P.C.B. (3/5))Schematic Diagram(V)

C

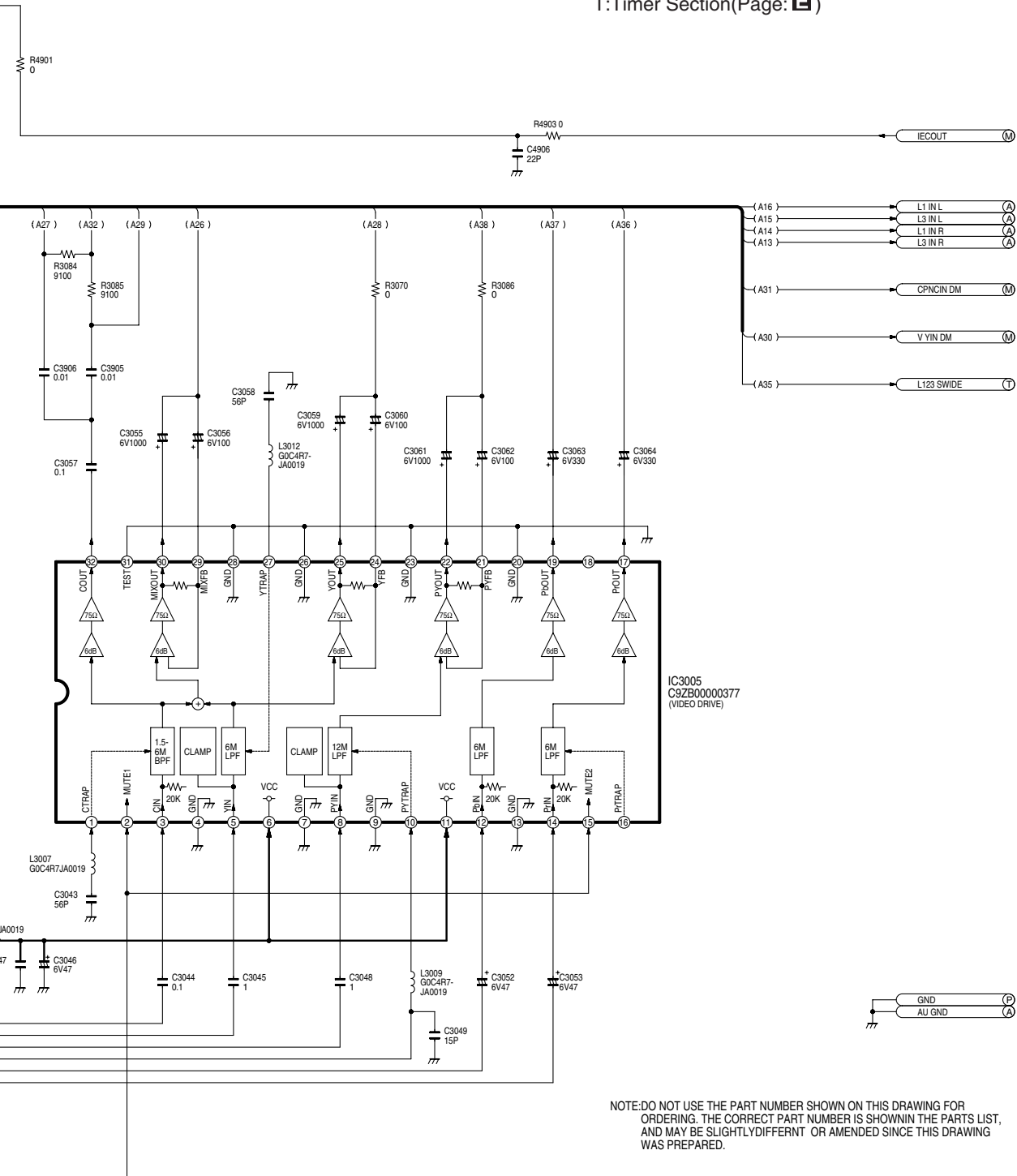
P:Sub Power Supply Section(Page: **A**)

M:Main Net Section(Page: **B**)

V:Video I/O Section(Page: **C**)

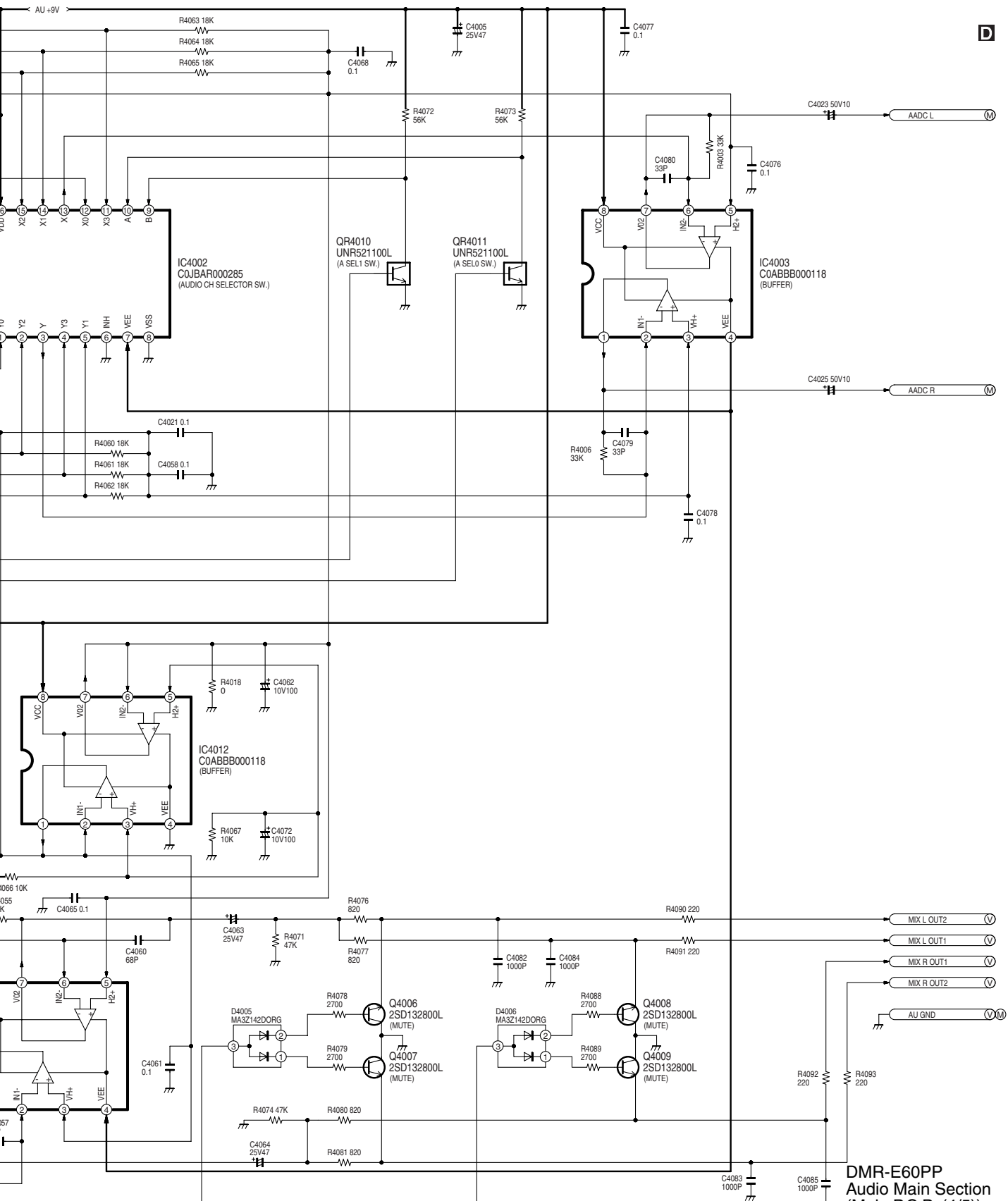
A:Audio Main Section(Page: **D**)

T:Timer Section(Page: **E**)



DMR-E60PP
Video I/O Section(Main P.C.B. (3/5))Schematic Diagram(V)



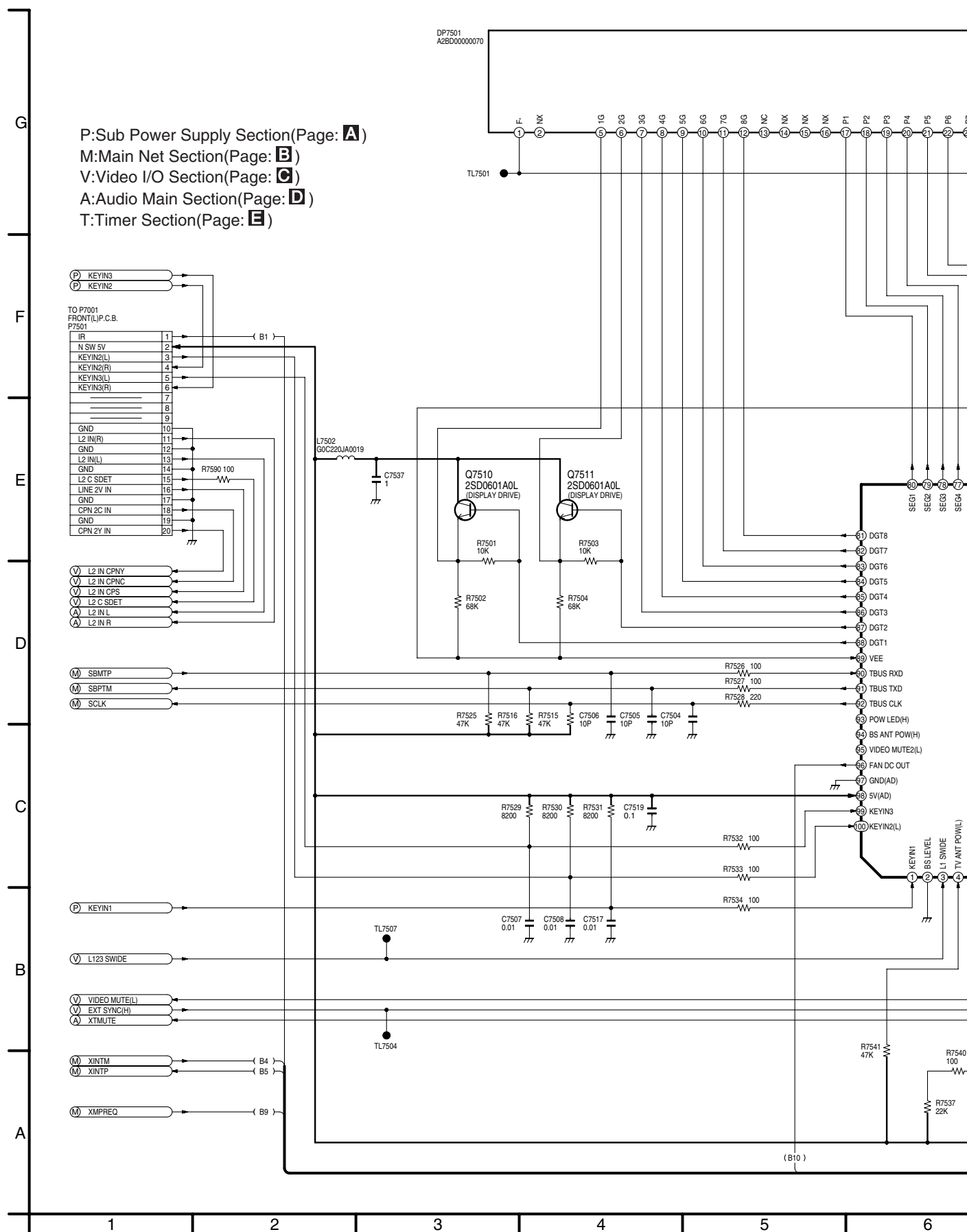


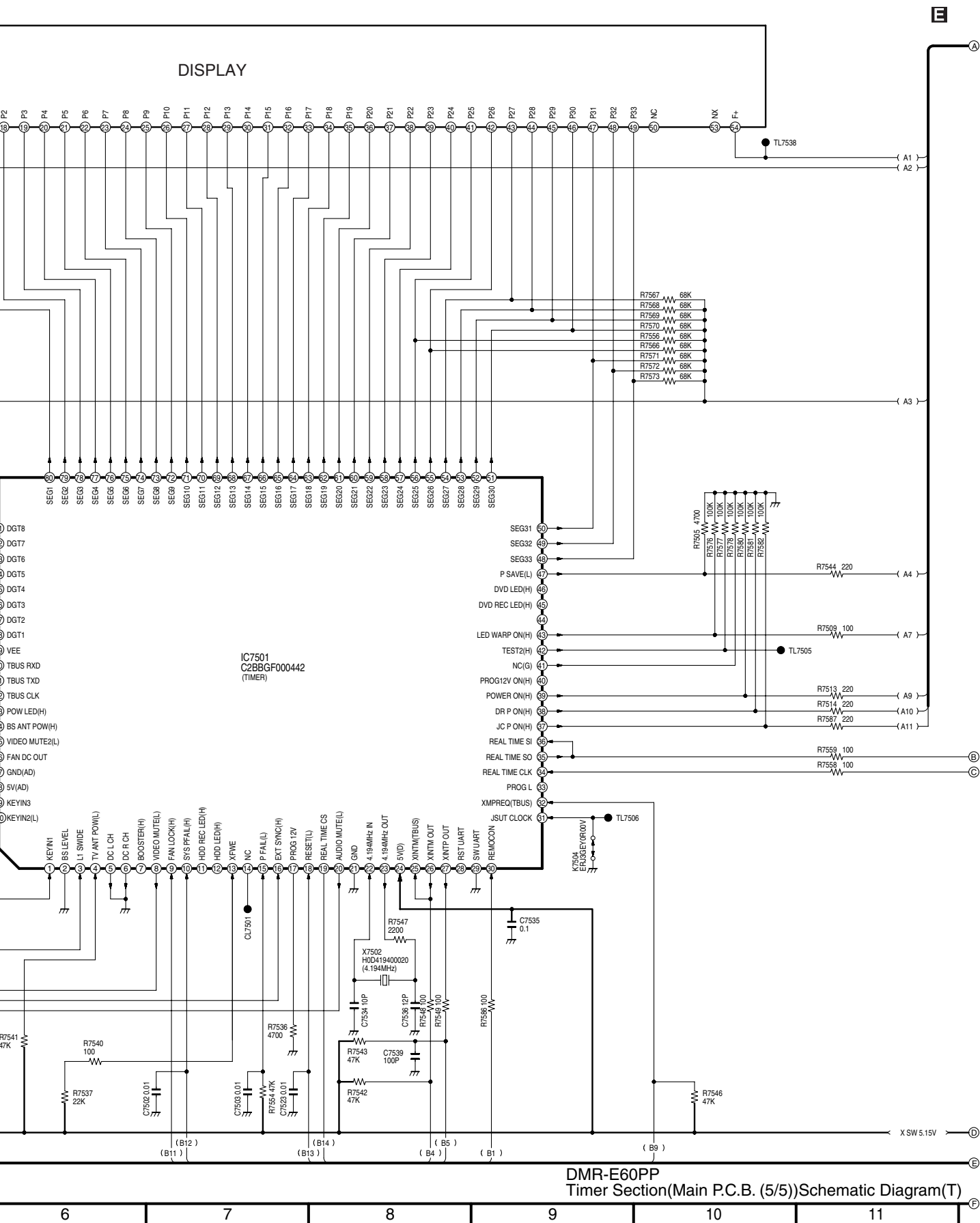
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60PP
Audio Main Section
(Main P.C.B. (4/5))
Schematic Diagram(A)

6 7 8 9 10 11

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)



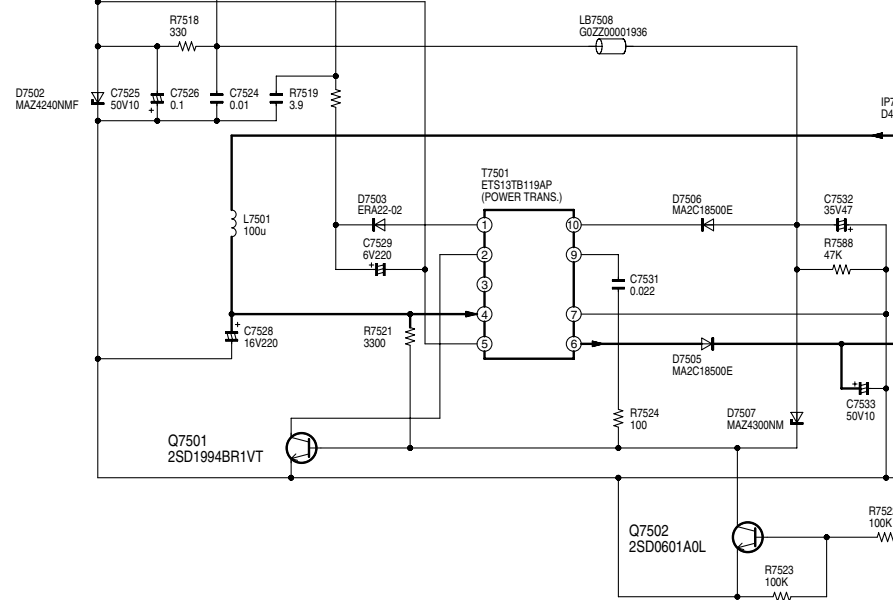




(A)

(A2) (A3) (A1)

P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

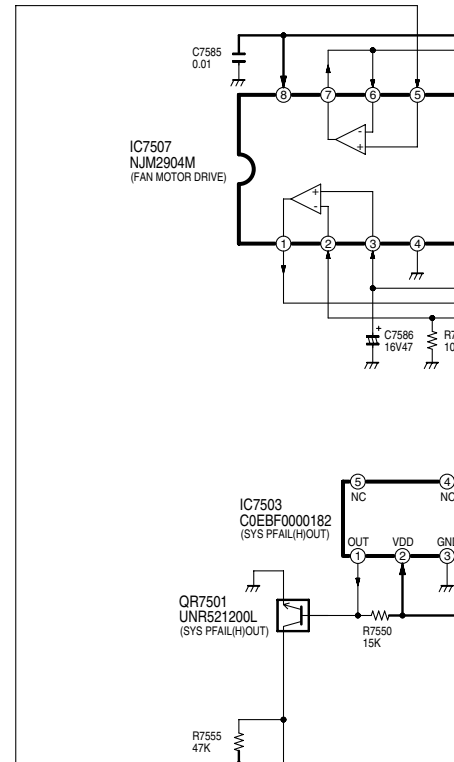
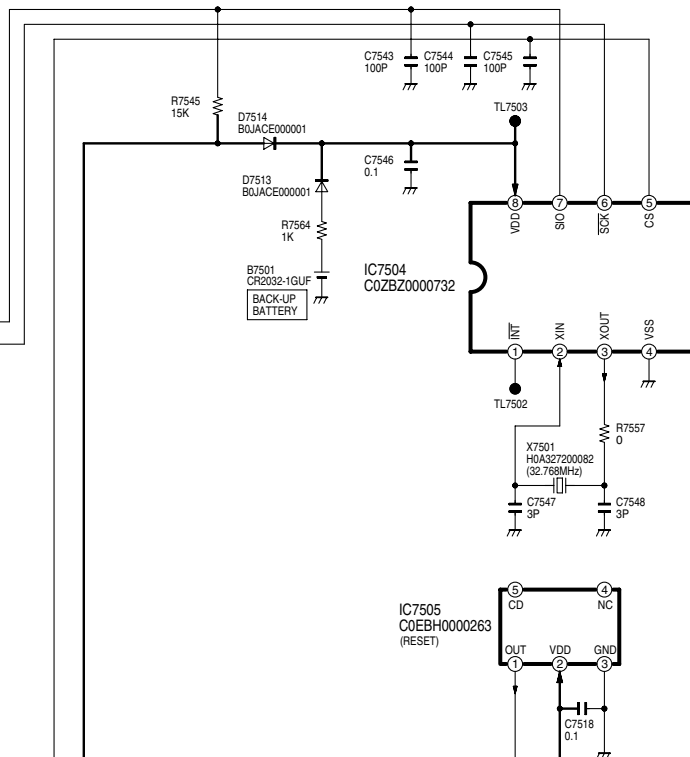


(B)
(C)

(D)

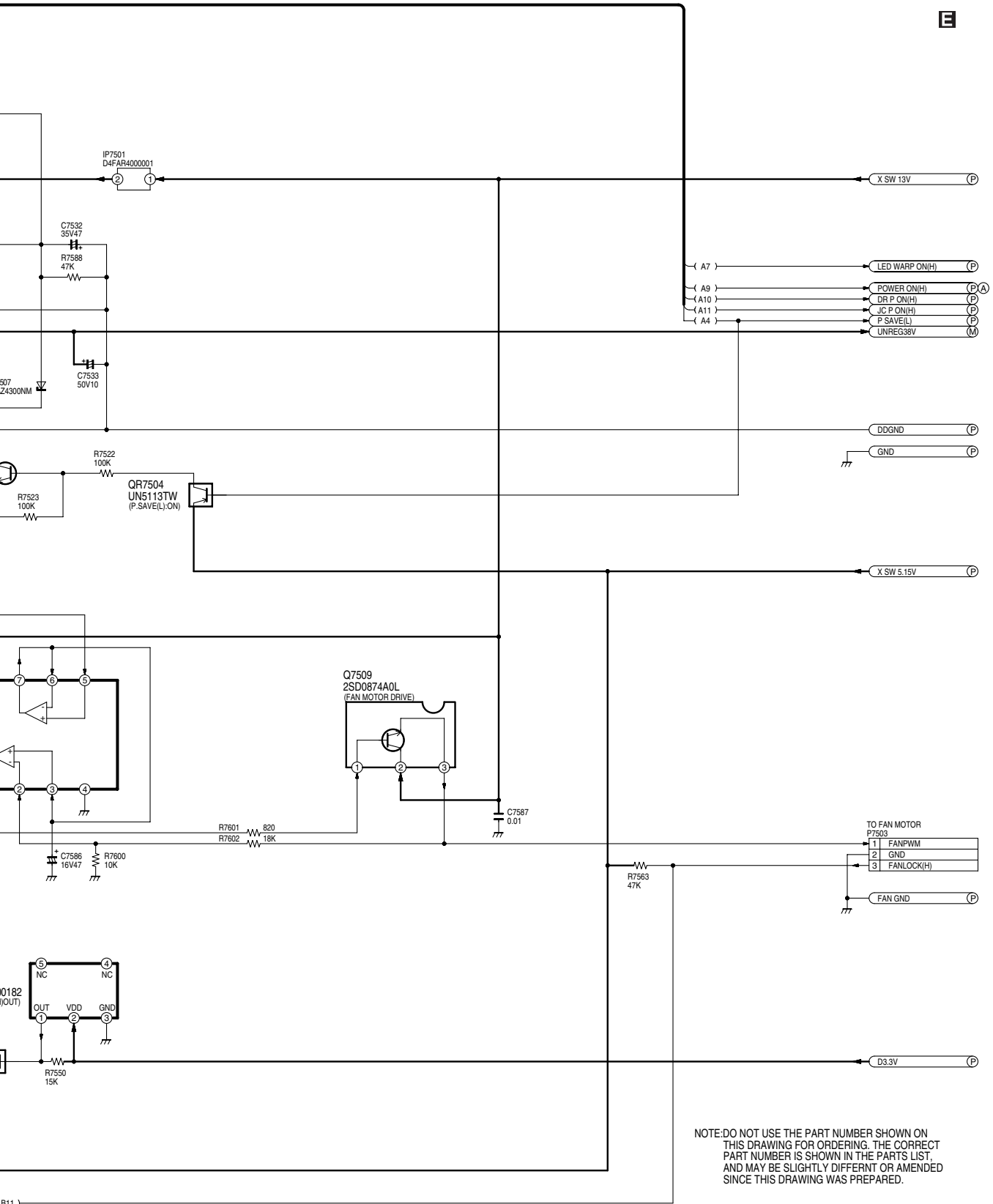
(E)

(F)



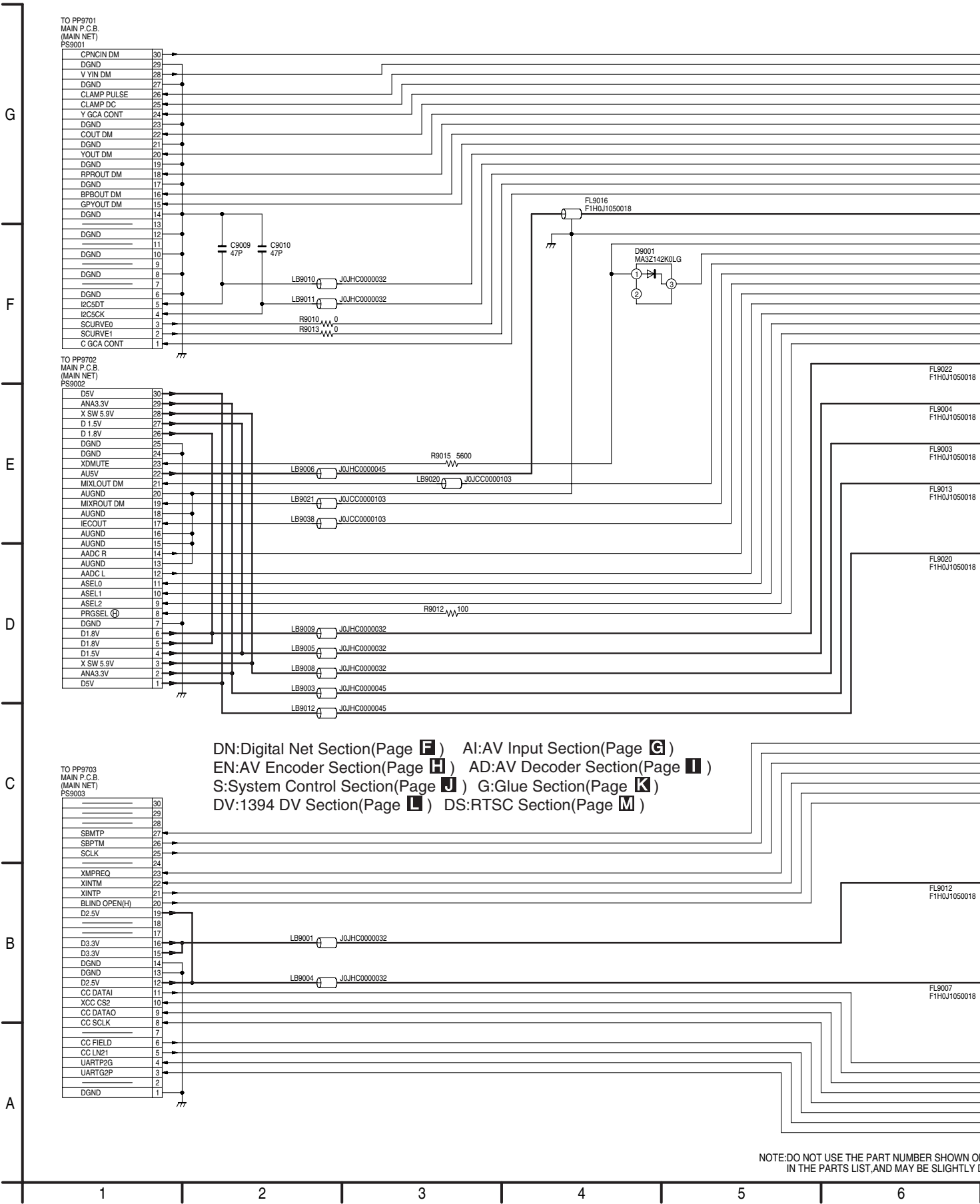
DMR-E60PP
Timer Section(Main P.C.B. (5/5))Schematic Diagram(T)

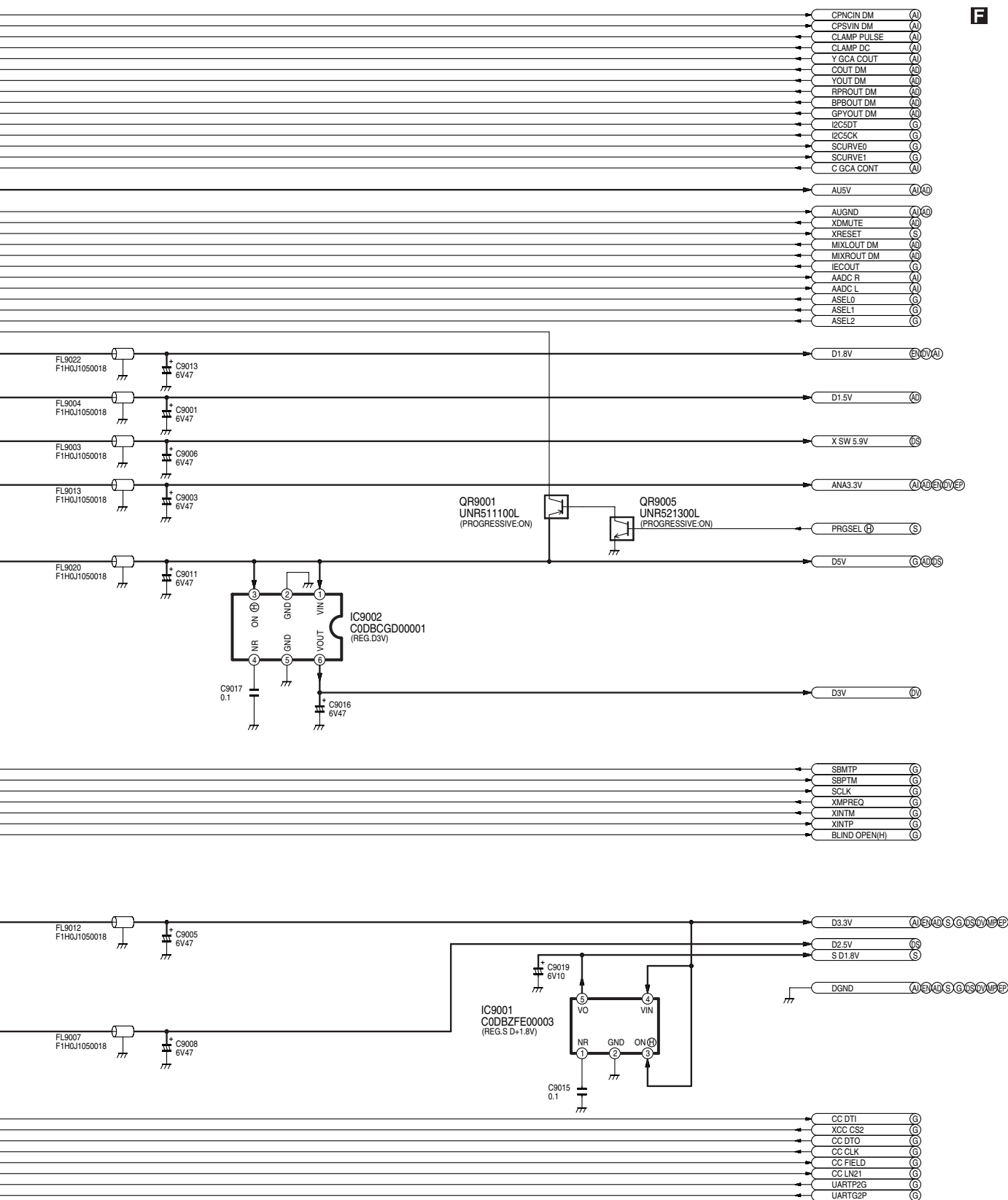
12 13 14 15 16 17



DMR-E60PP
Timer Section(Main P.C.B. (5/5))Schematic Diagram(T)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/8)





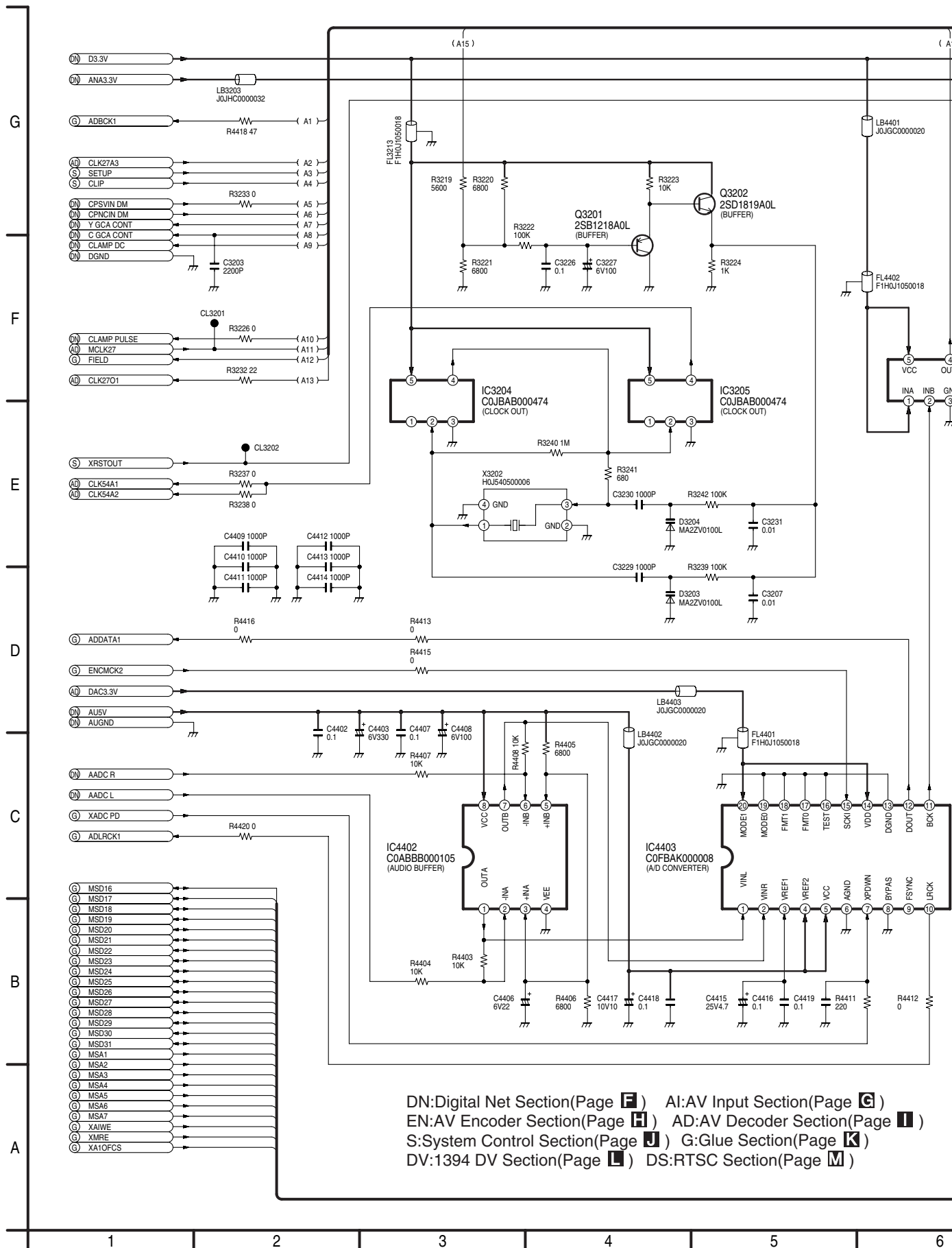
RT NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
ND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

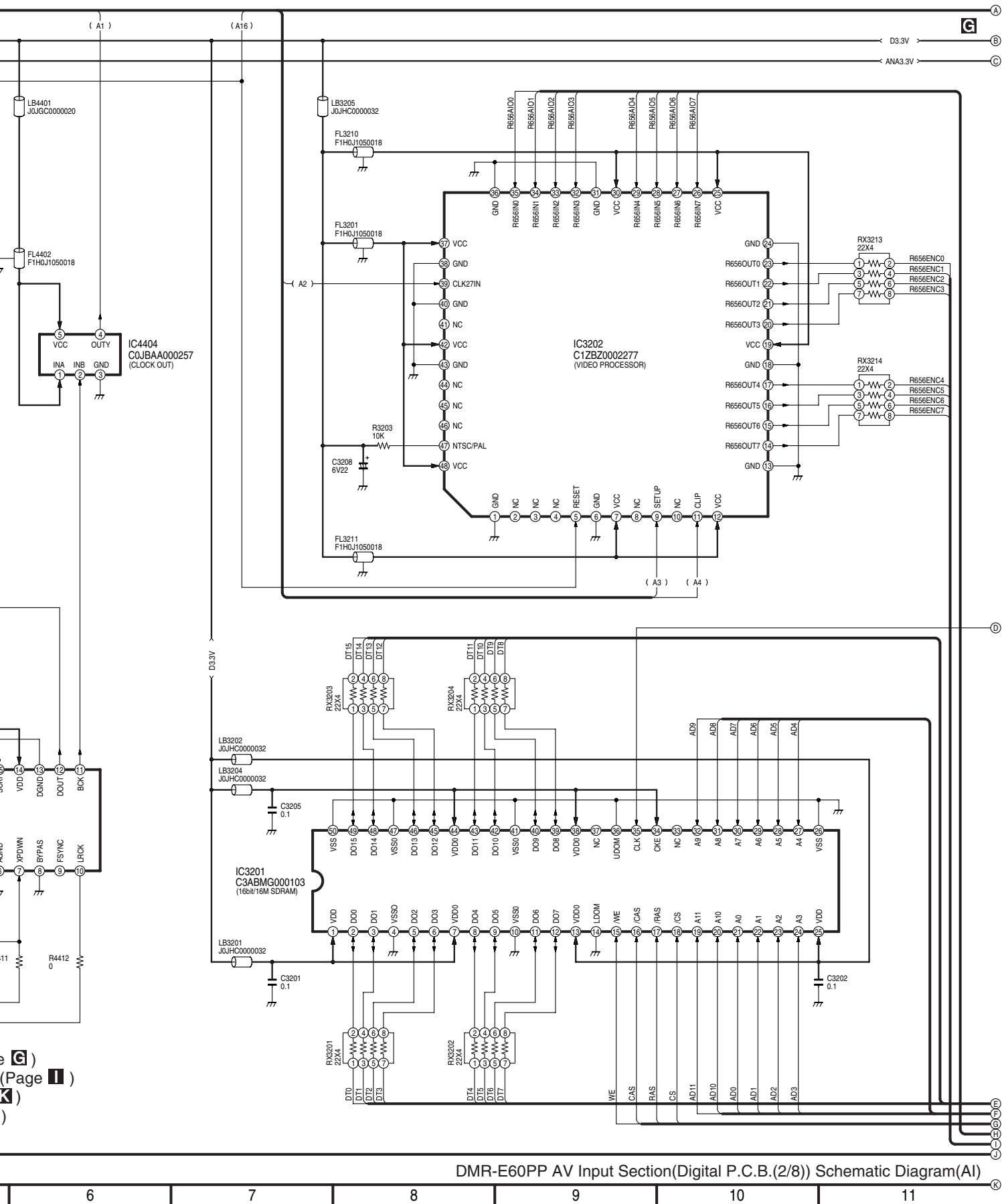
DMR-E60PP
Digital Net Section(Digital P.C.B.(1/8)) Schematic Diagram(DN)

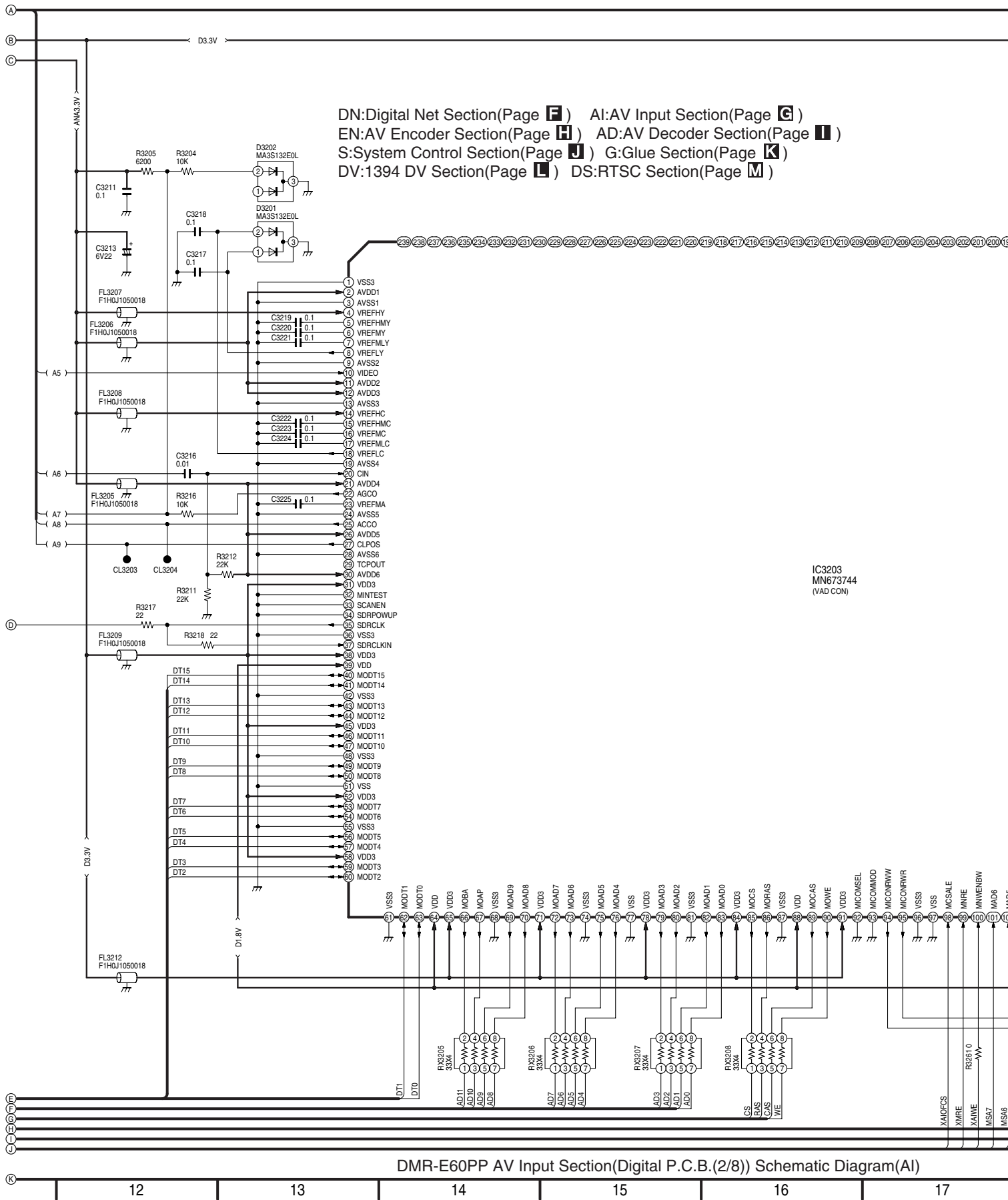
6 7 8 9 10 11



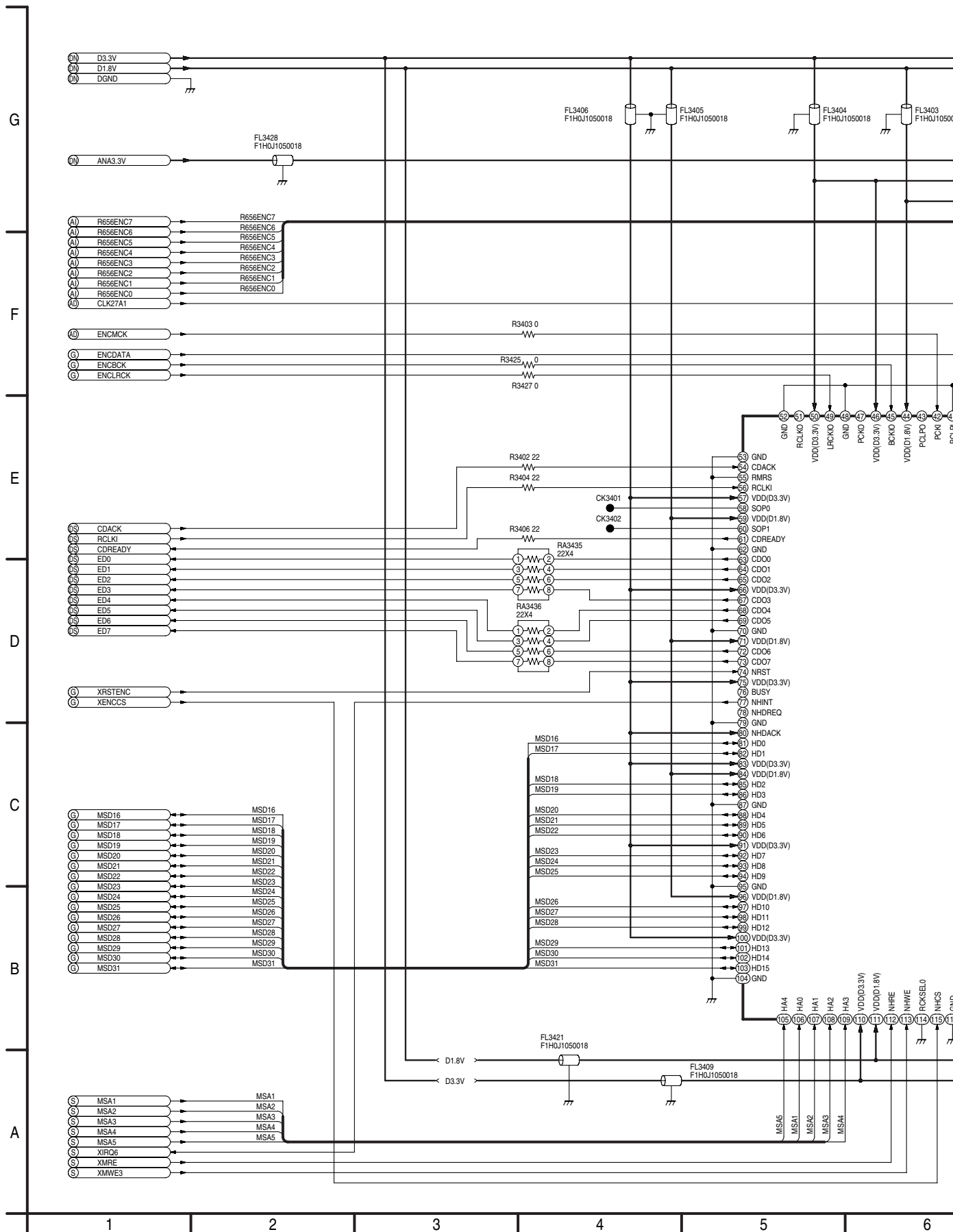
14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/8)

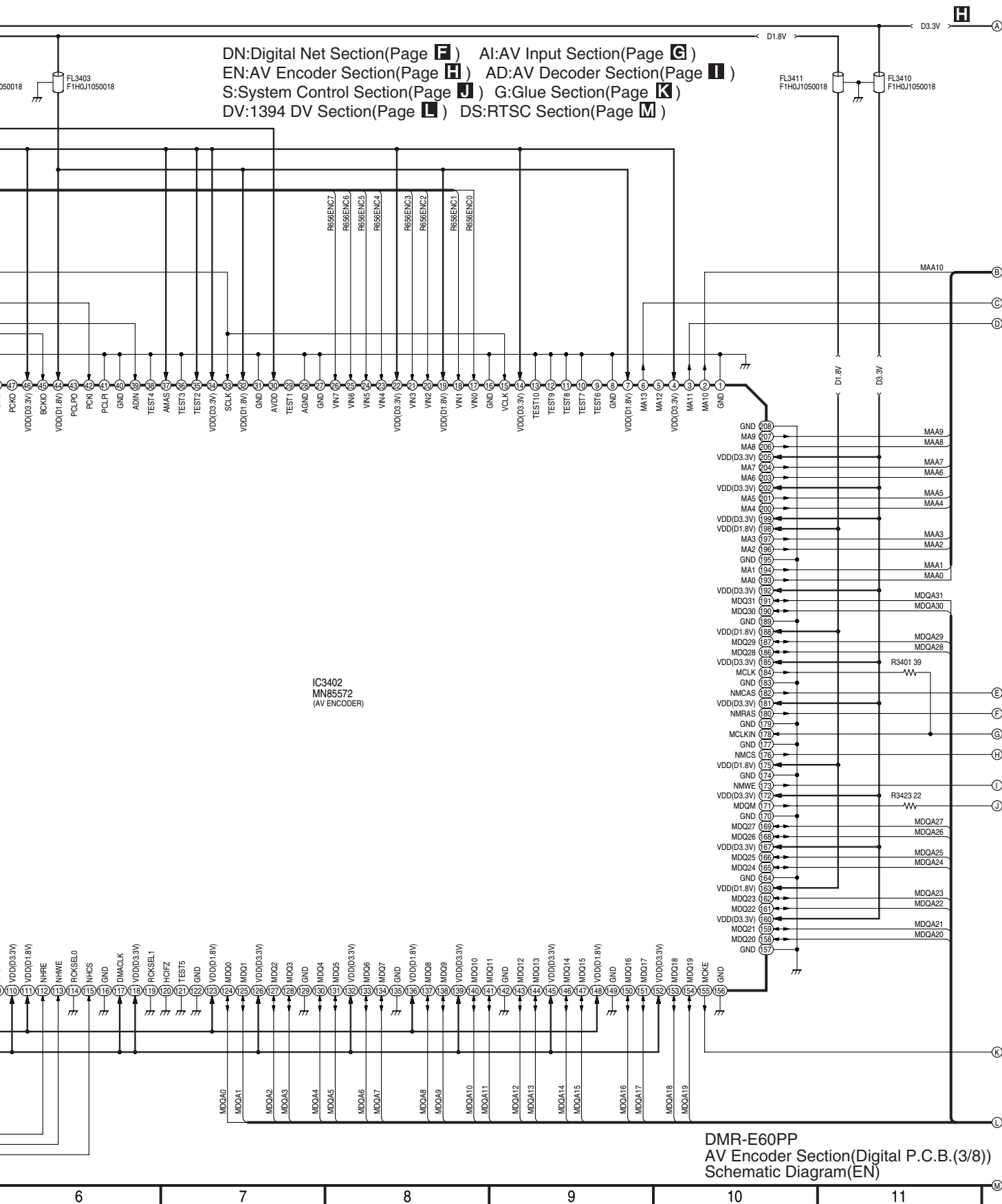


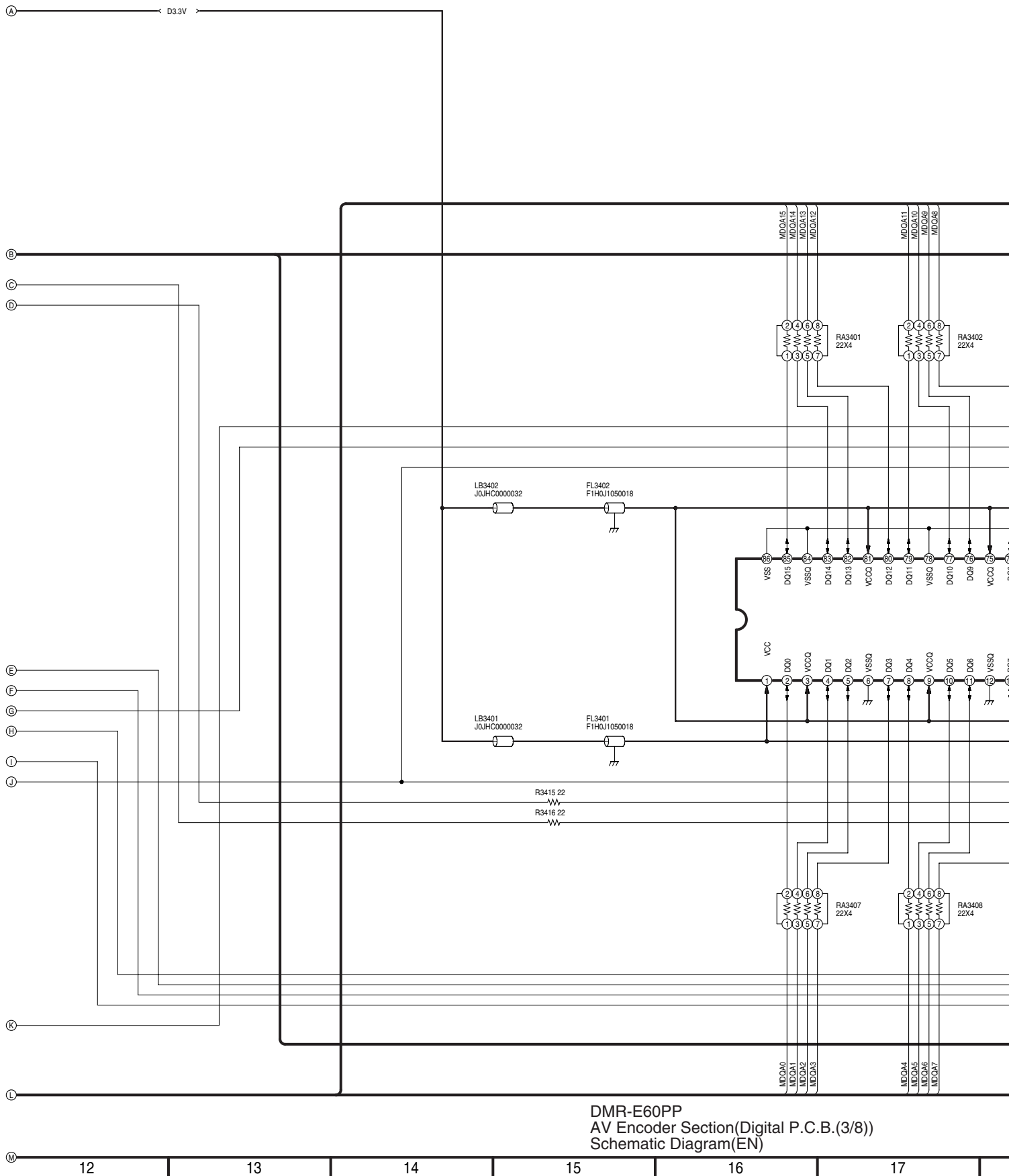




14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/8)

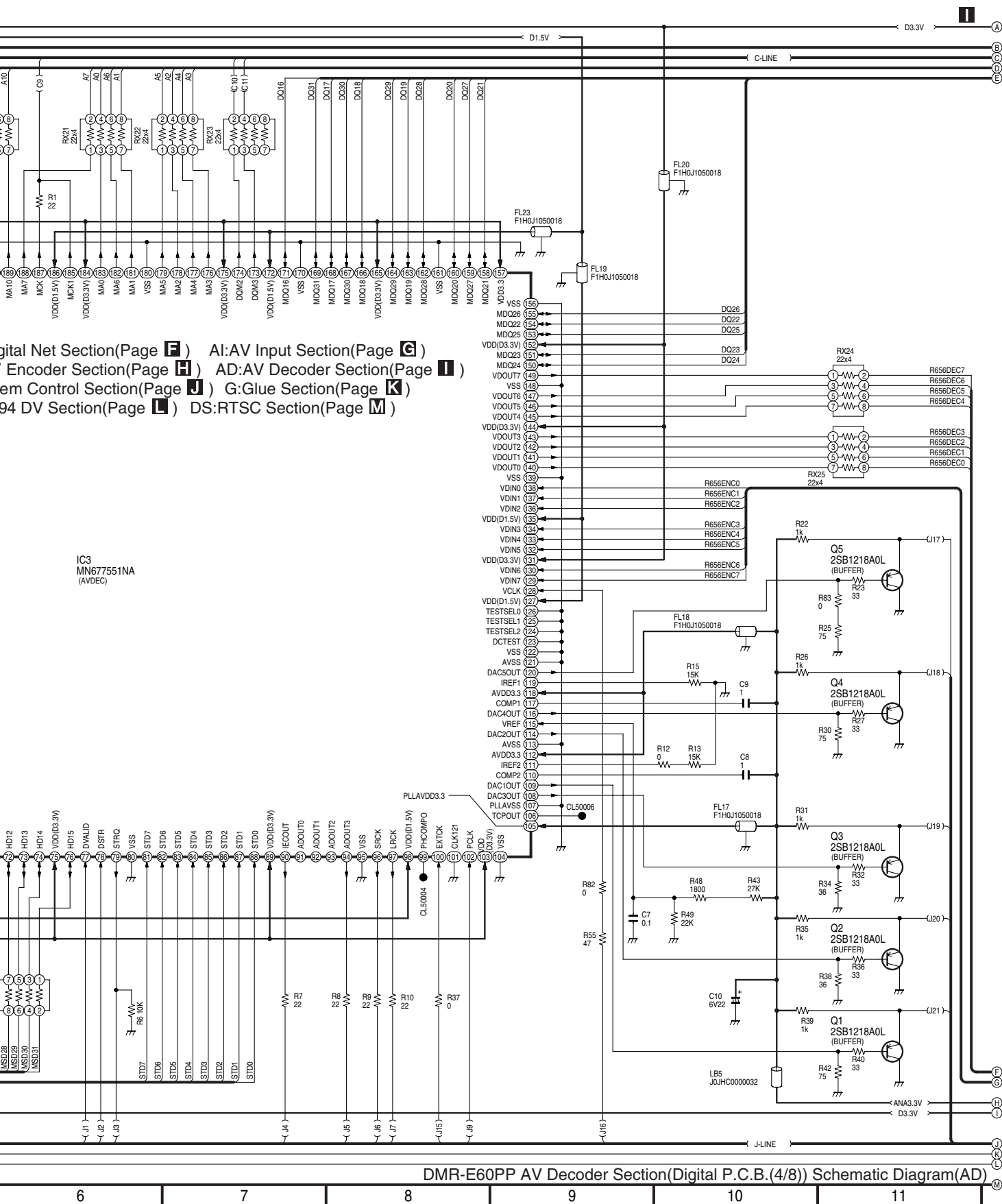


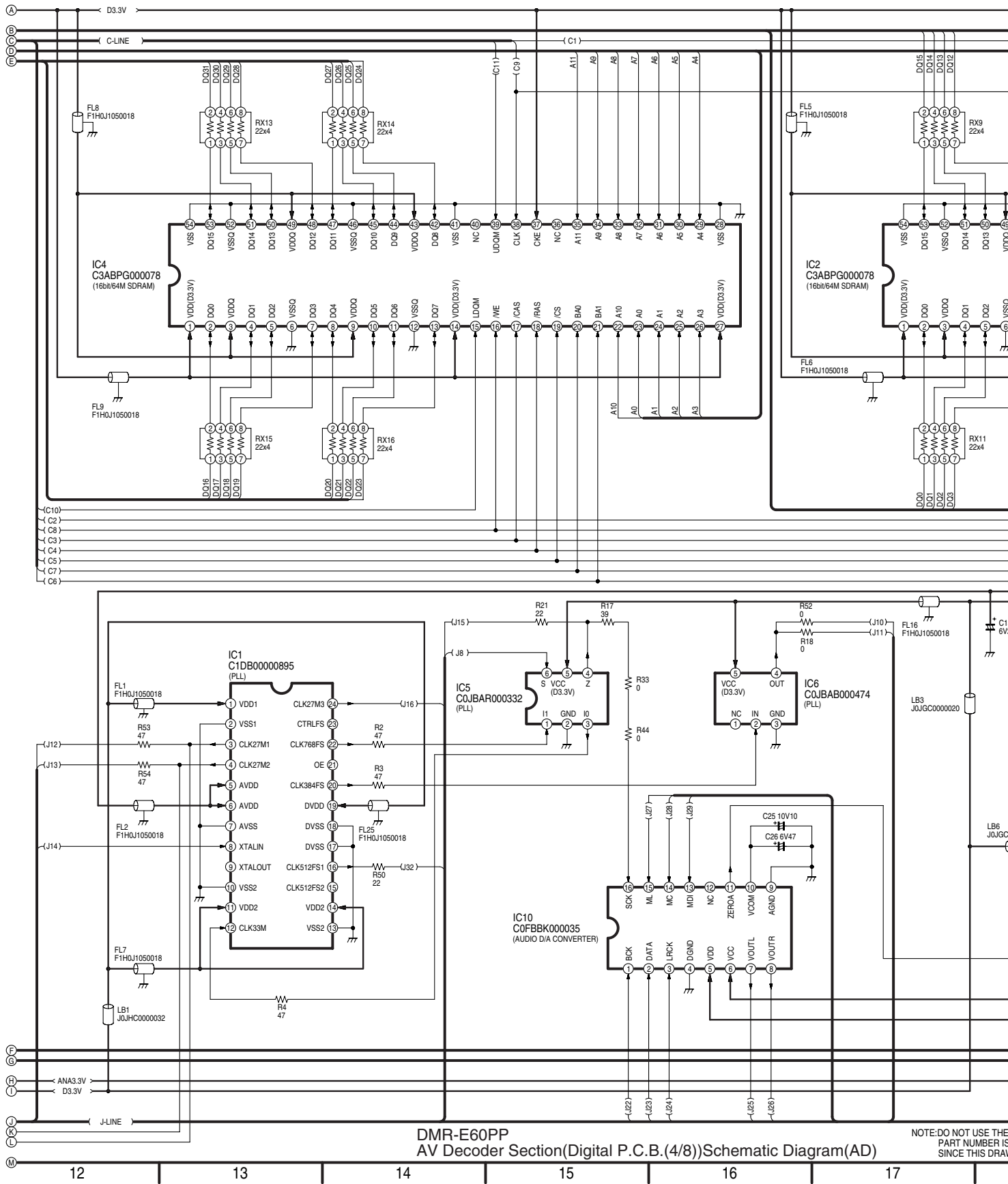




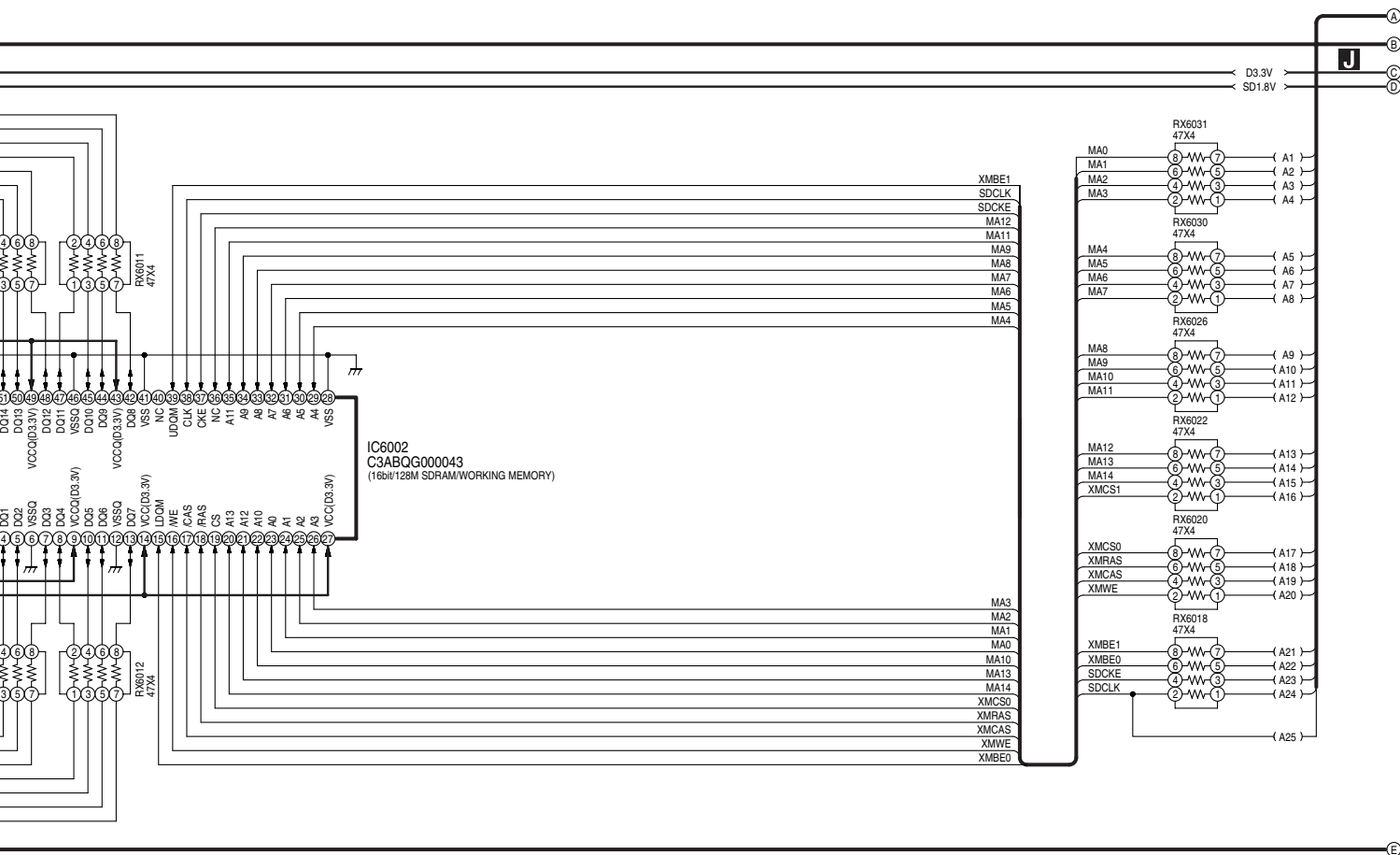


18

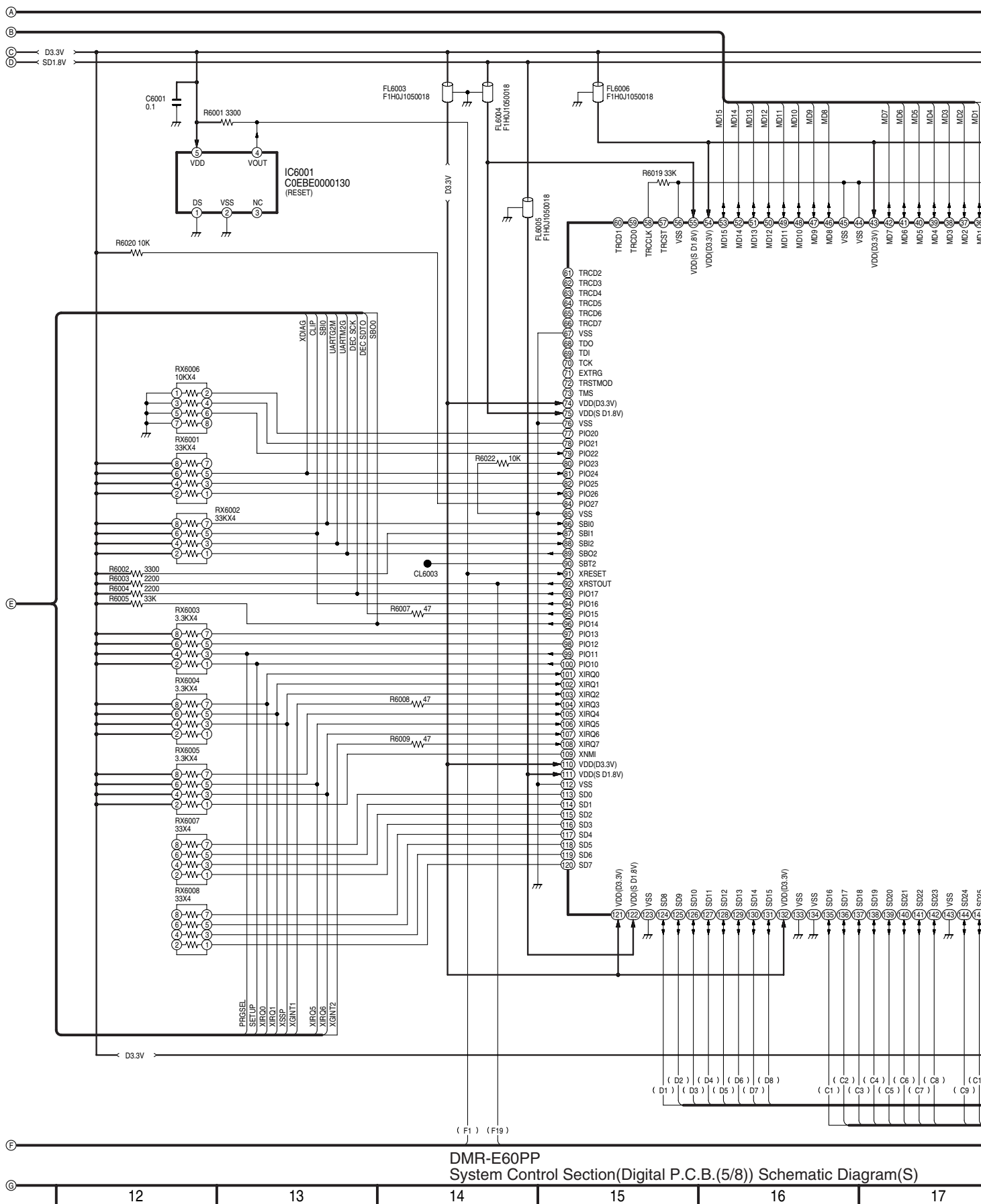




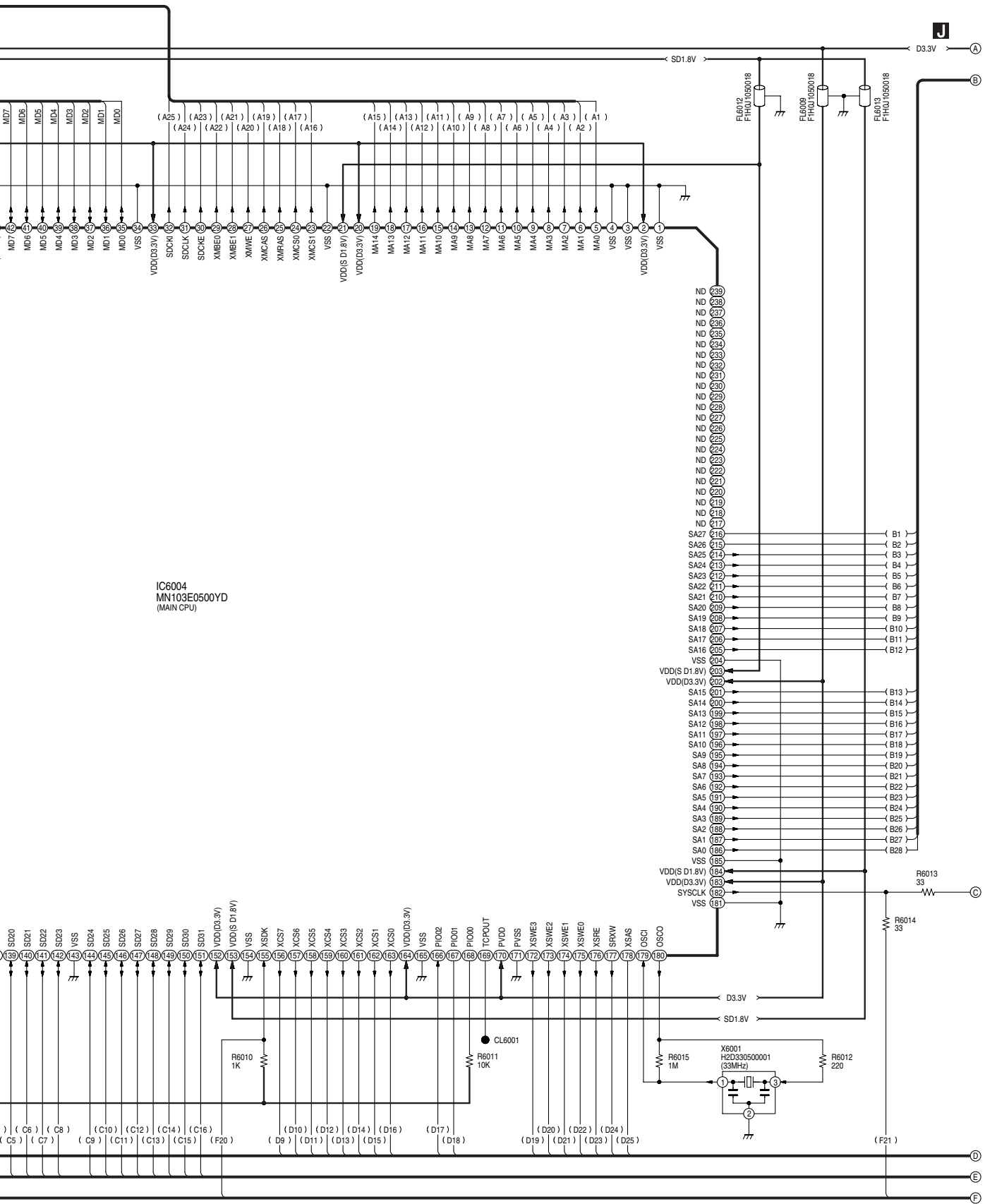




DN:Digital Net Section(Page **F**) AI:AV Input Section(Page **G**)
 EN:AV Encoder Section(Page **H**) AD:AV Decoder Section(Page **I**)
 S:System Control Section(Page **J**) G:Glue Section(Page **K**)
 DV:1394 DV Section(Page **L**) DS:RTSC Section(Page **M**)



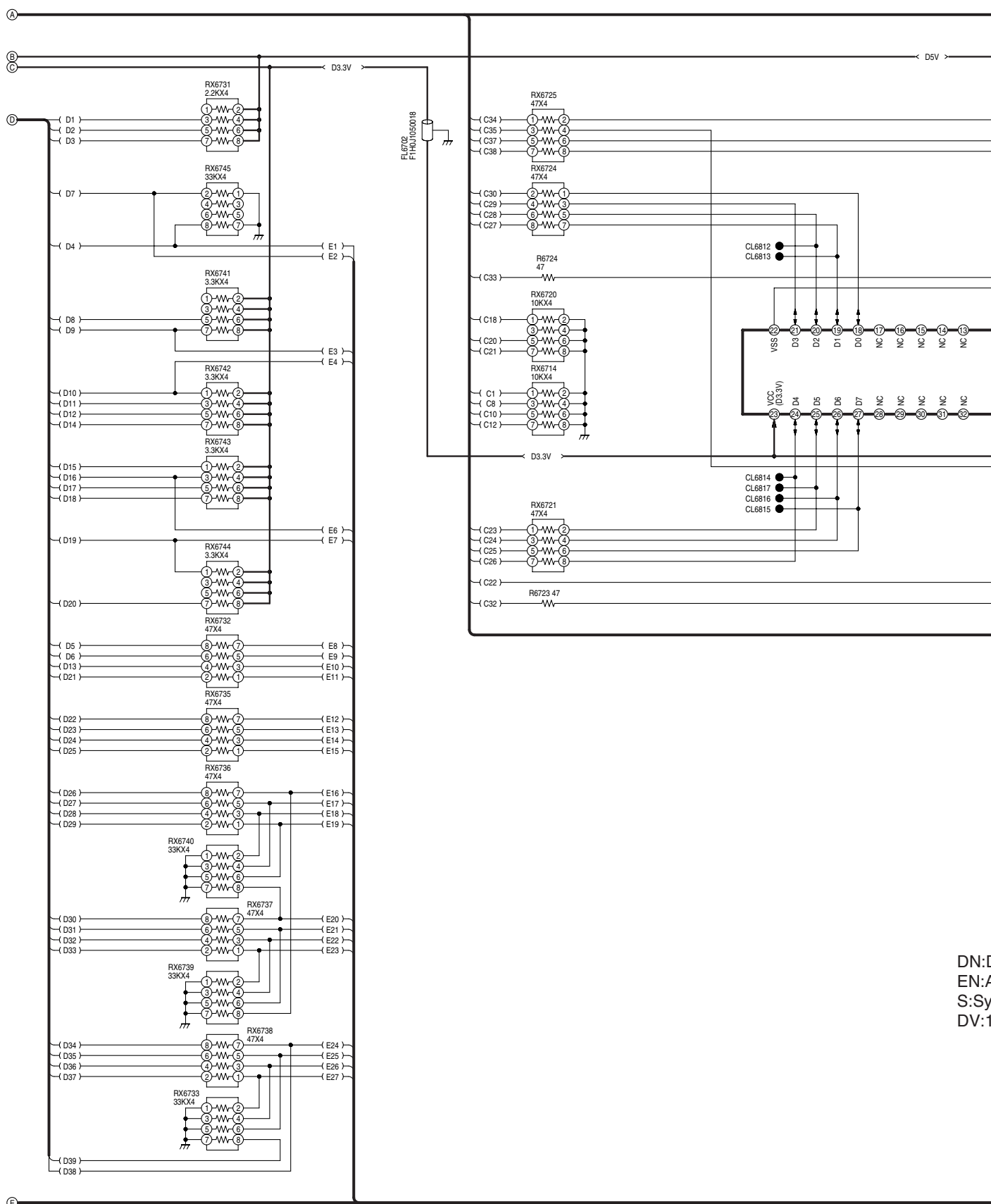
DMR-E60PP
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)



DMR-E60PP
System Control Section(Digital P.C.B.(5/8)) Schematic Diagram(S)

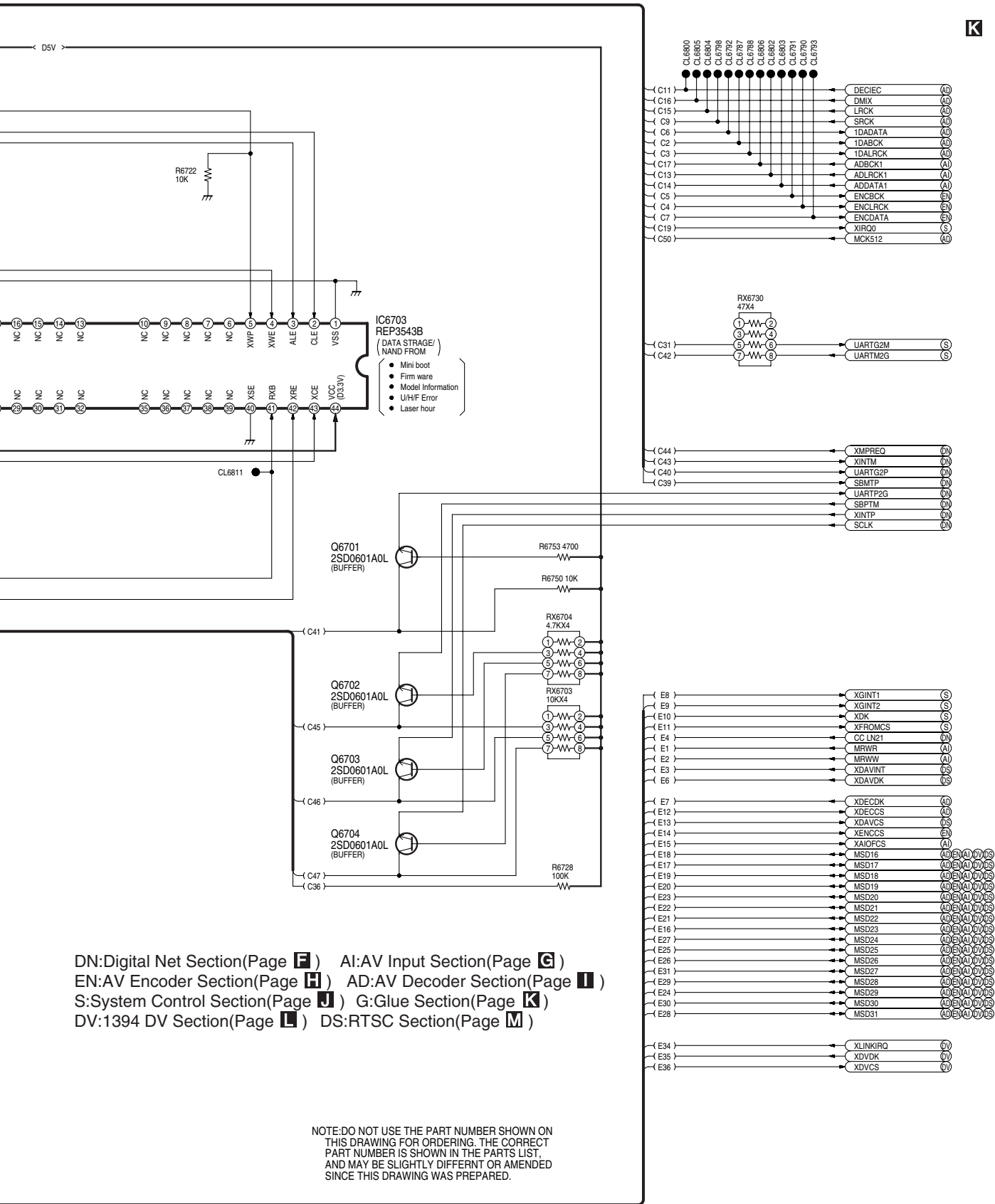






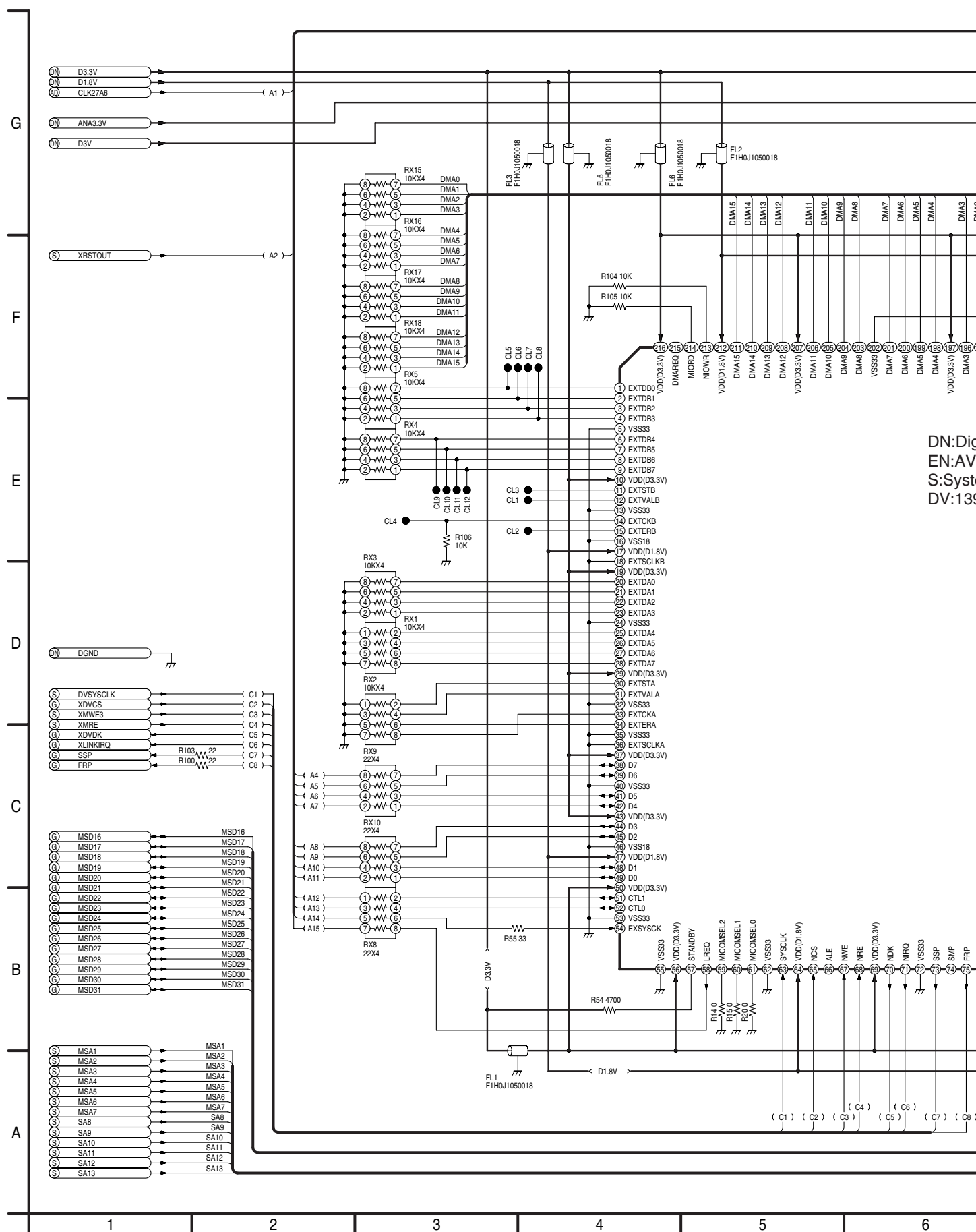
DMR-E60PP
Glue Section(Digital P.C.B.(6/8)) Schematic Diagram(G)

DN:1
EN:A
S:Sy
DV:1

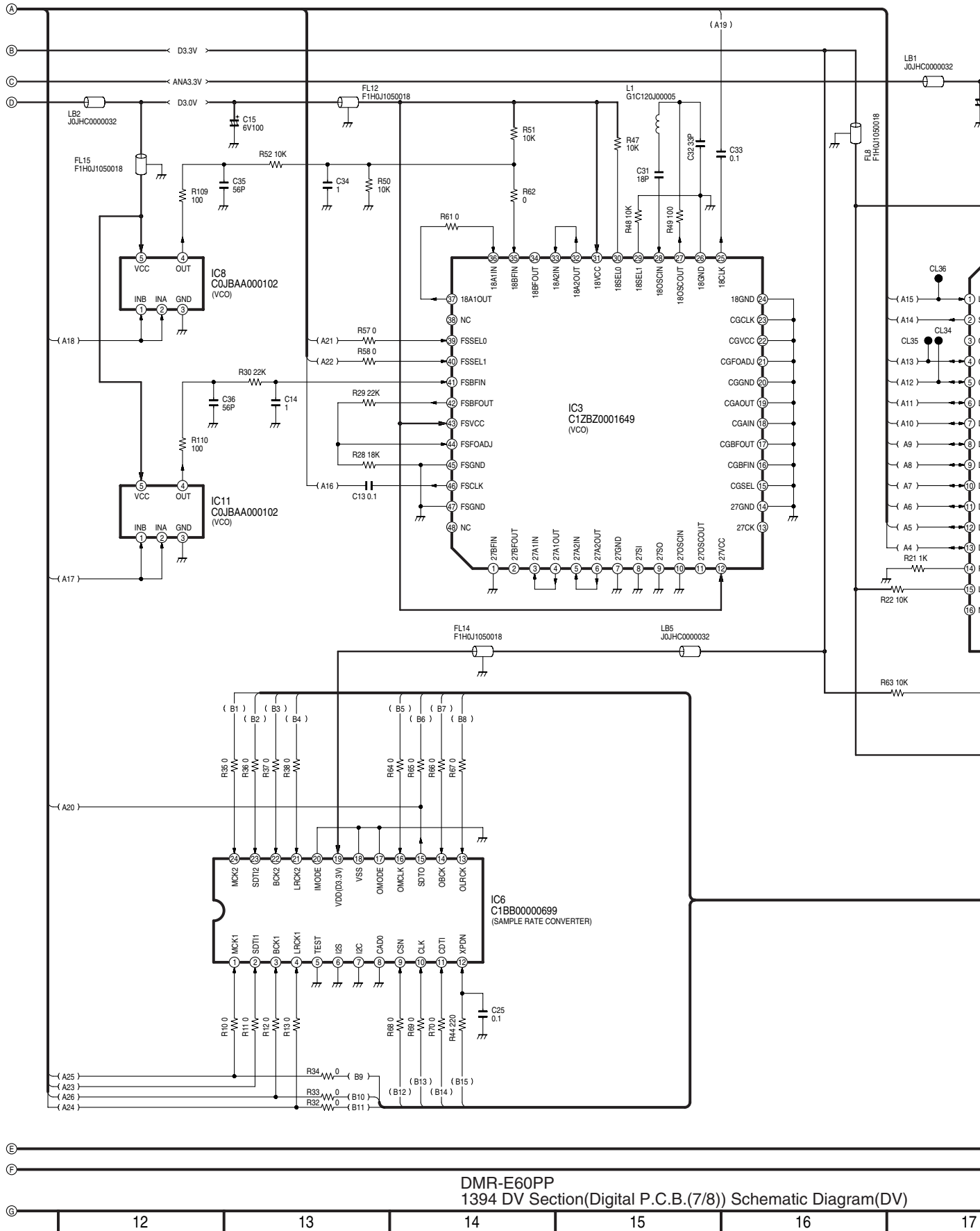


DMR-E60PP
 Glue Section(Digital P.C.B.(6/8)) Schematic Diagram(G)

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/8) & DV JACK Schematic Diagram

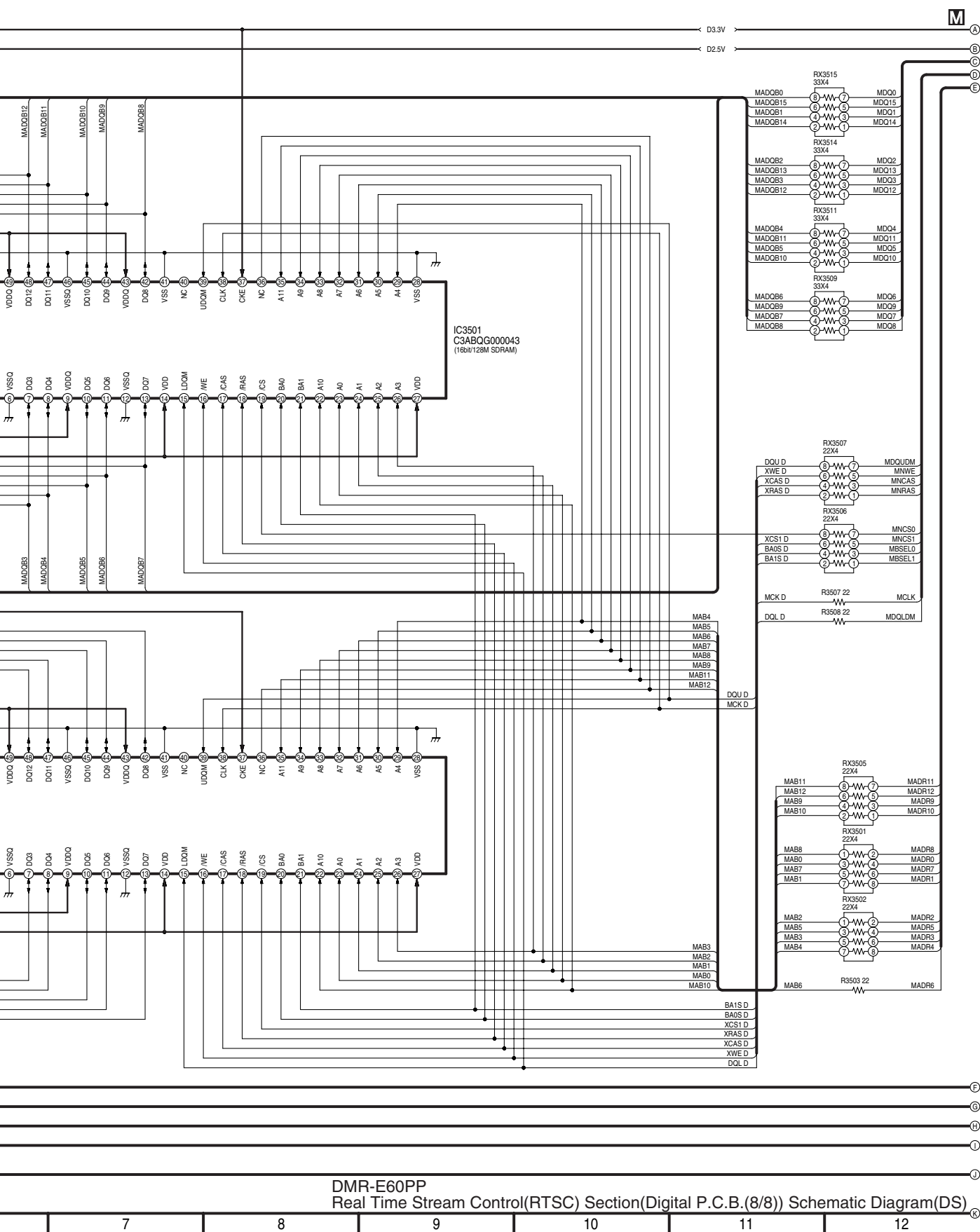


6	7	8	9	10	11
---	---	---	---	----	----

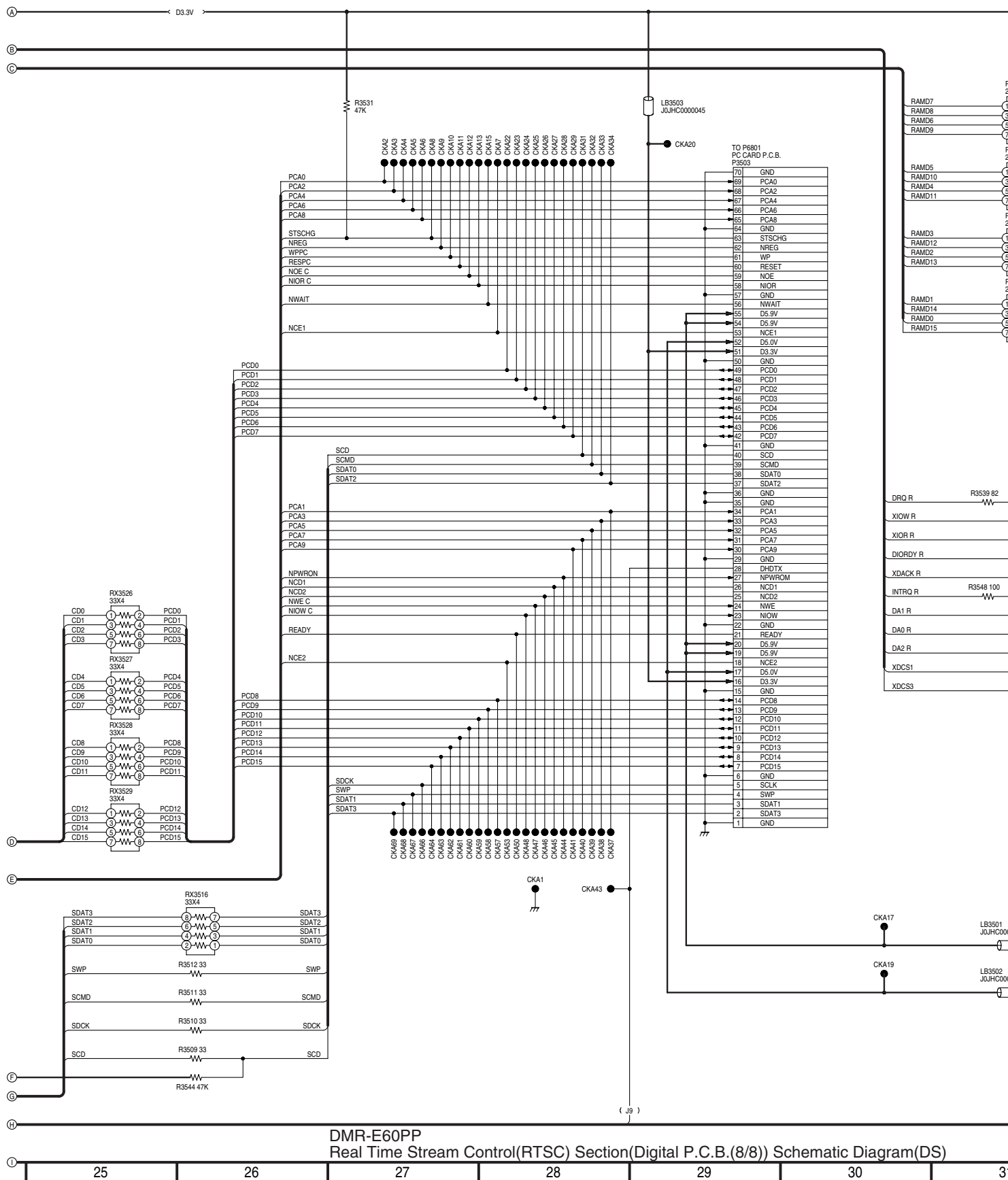


DMR-E60PP
1394 DV Section(Digital P.C.B.(7/8)) Schematic Diagram(DV)

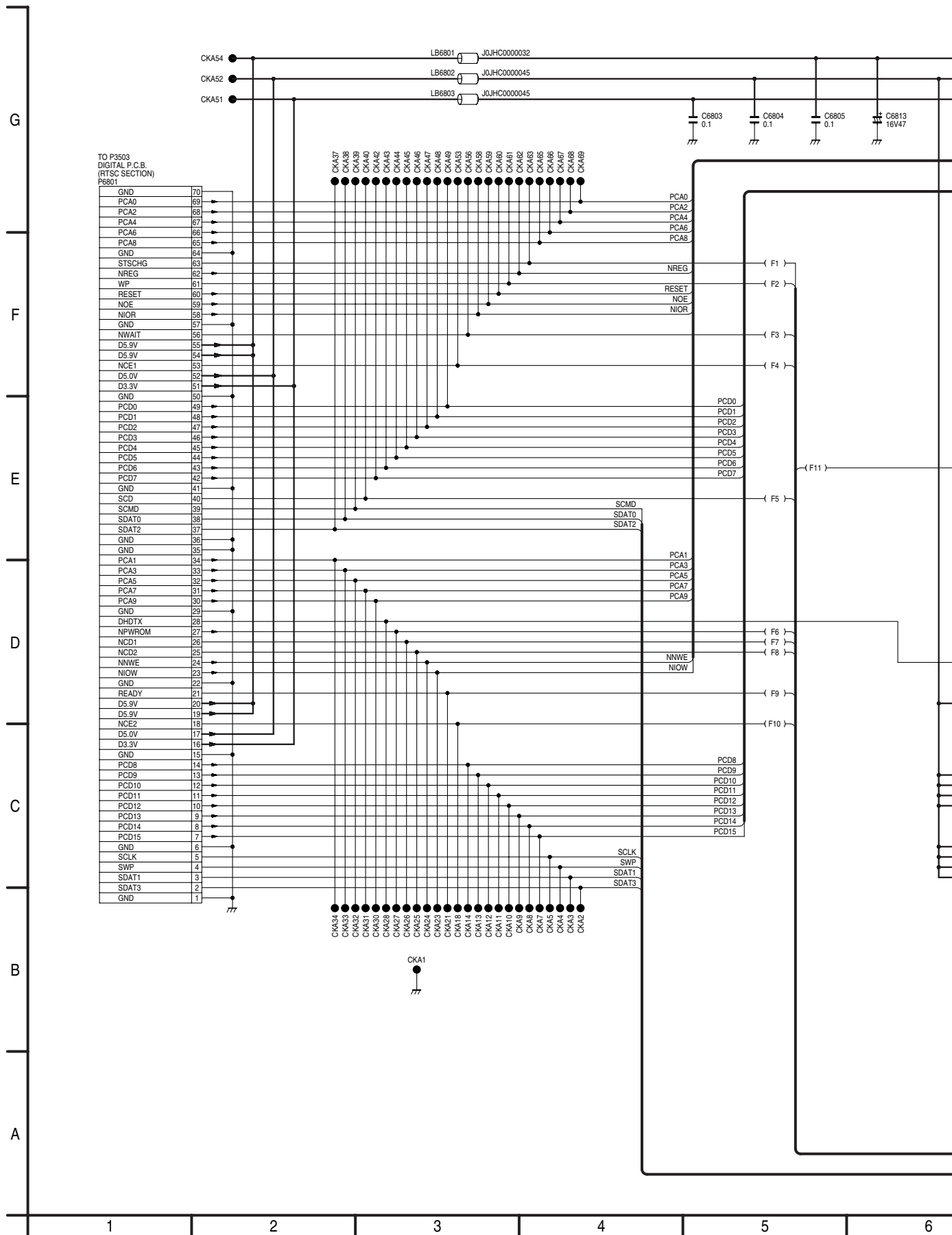


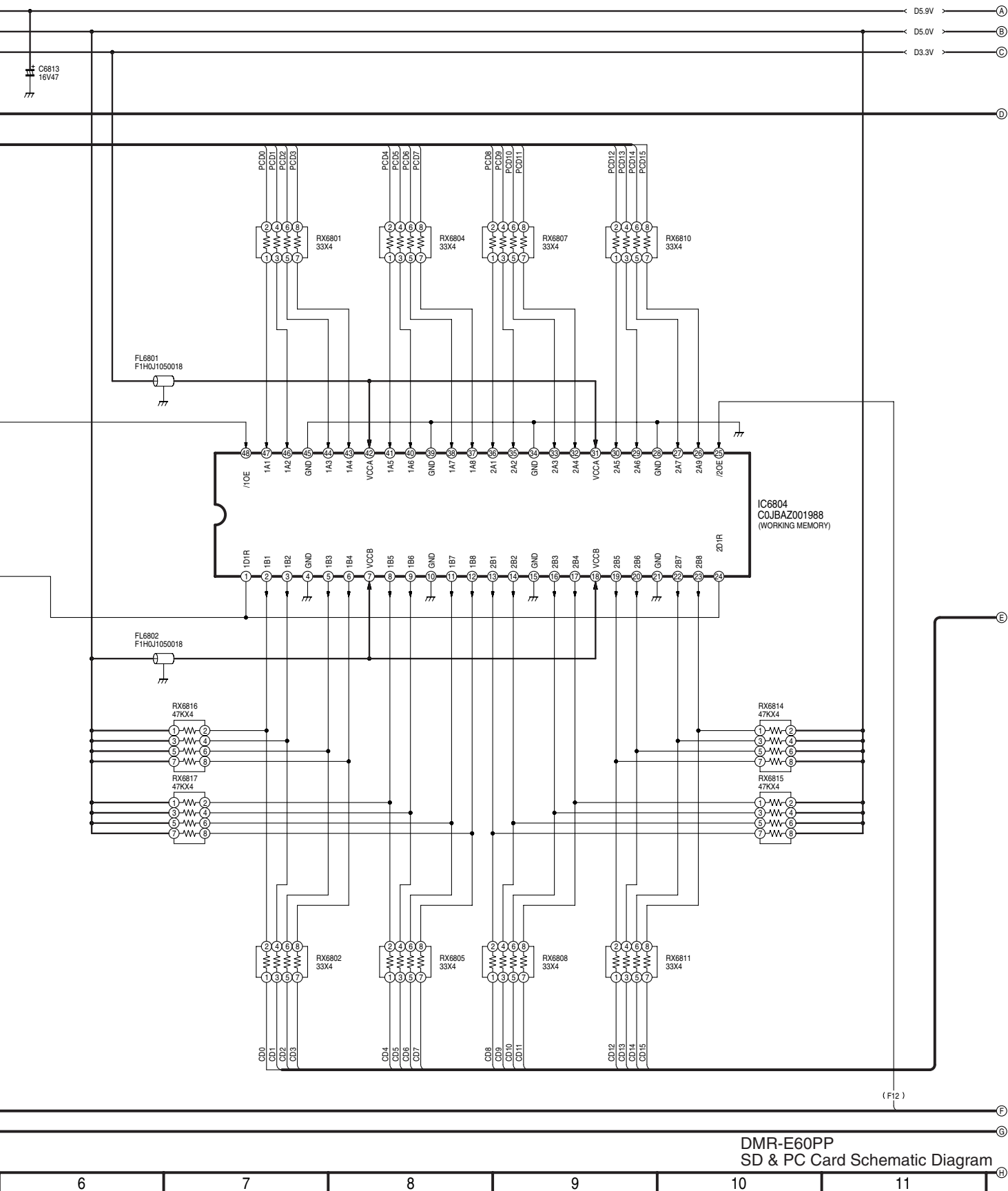


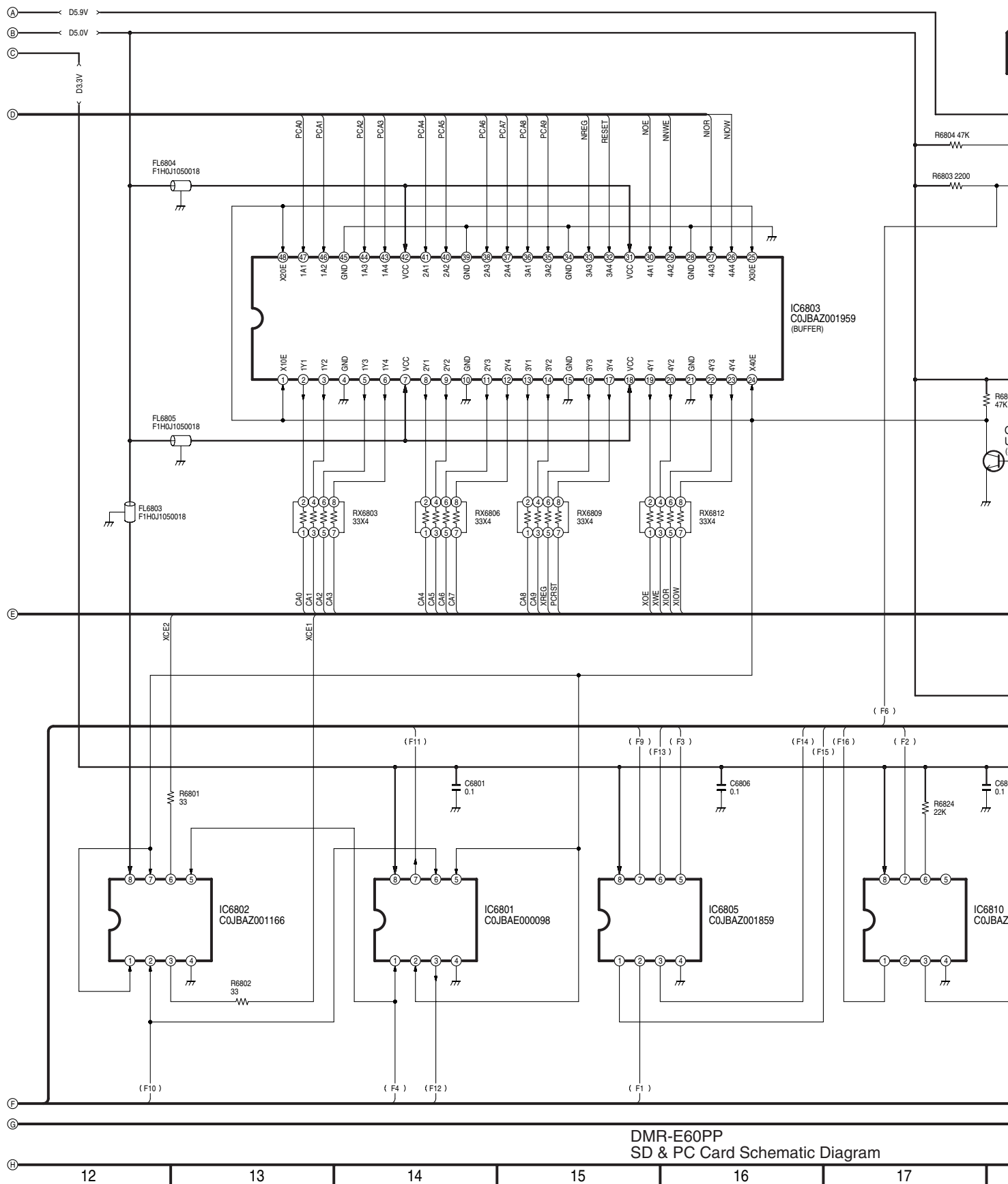




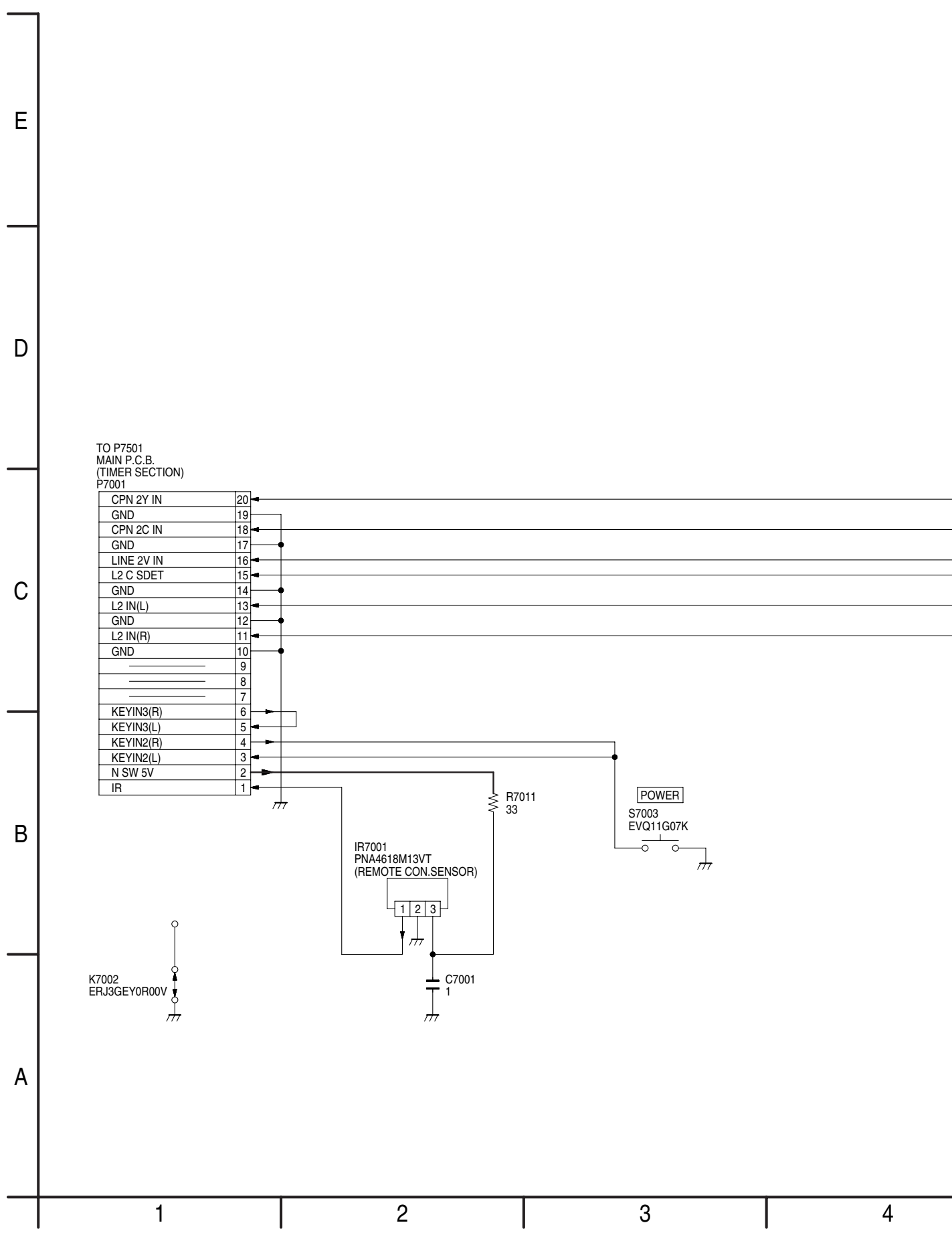
14.16. SD & PC Card Schematic Diagram

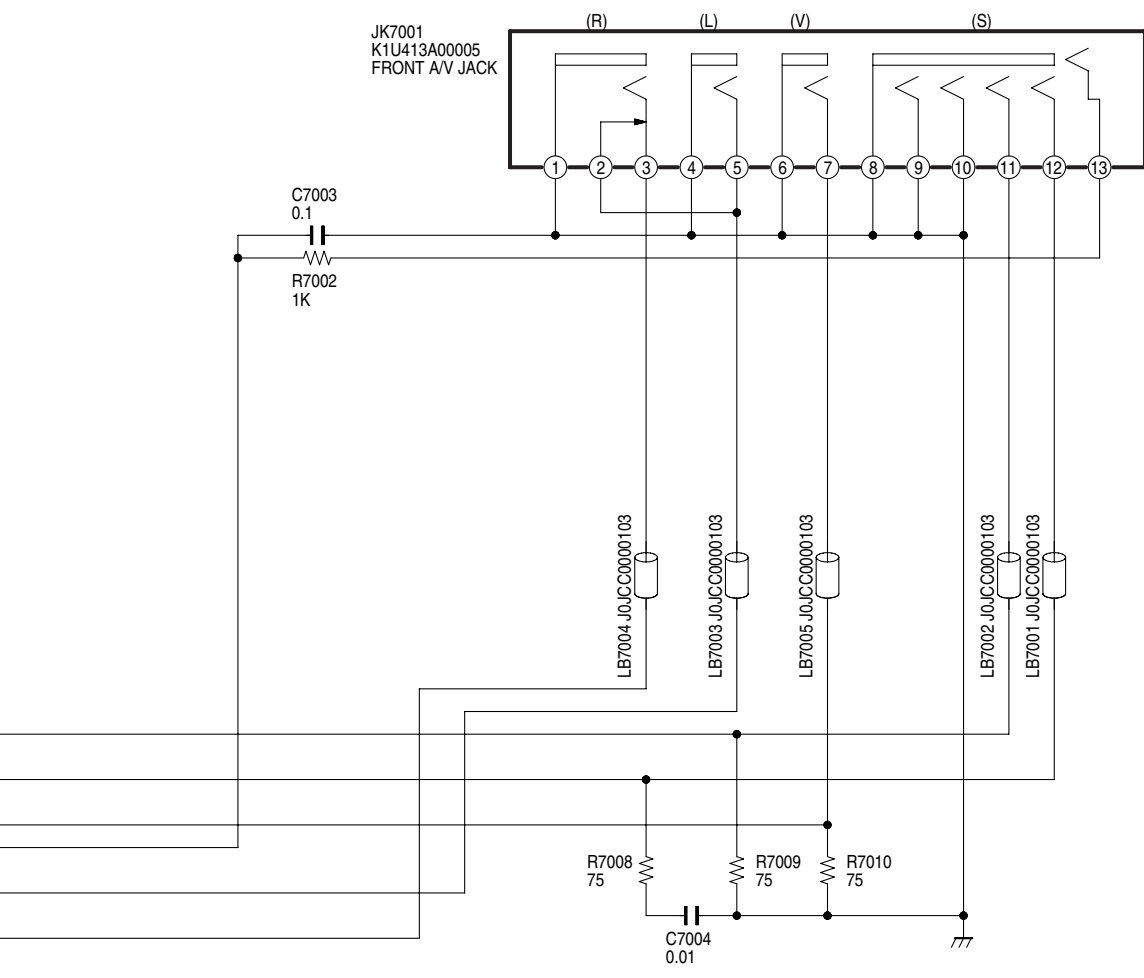






14.17. Front (L) Schematic Diagram

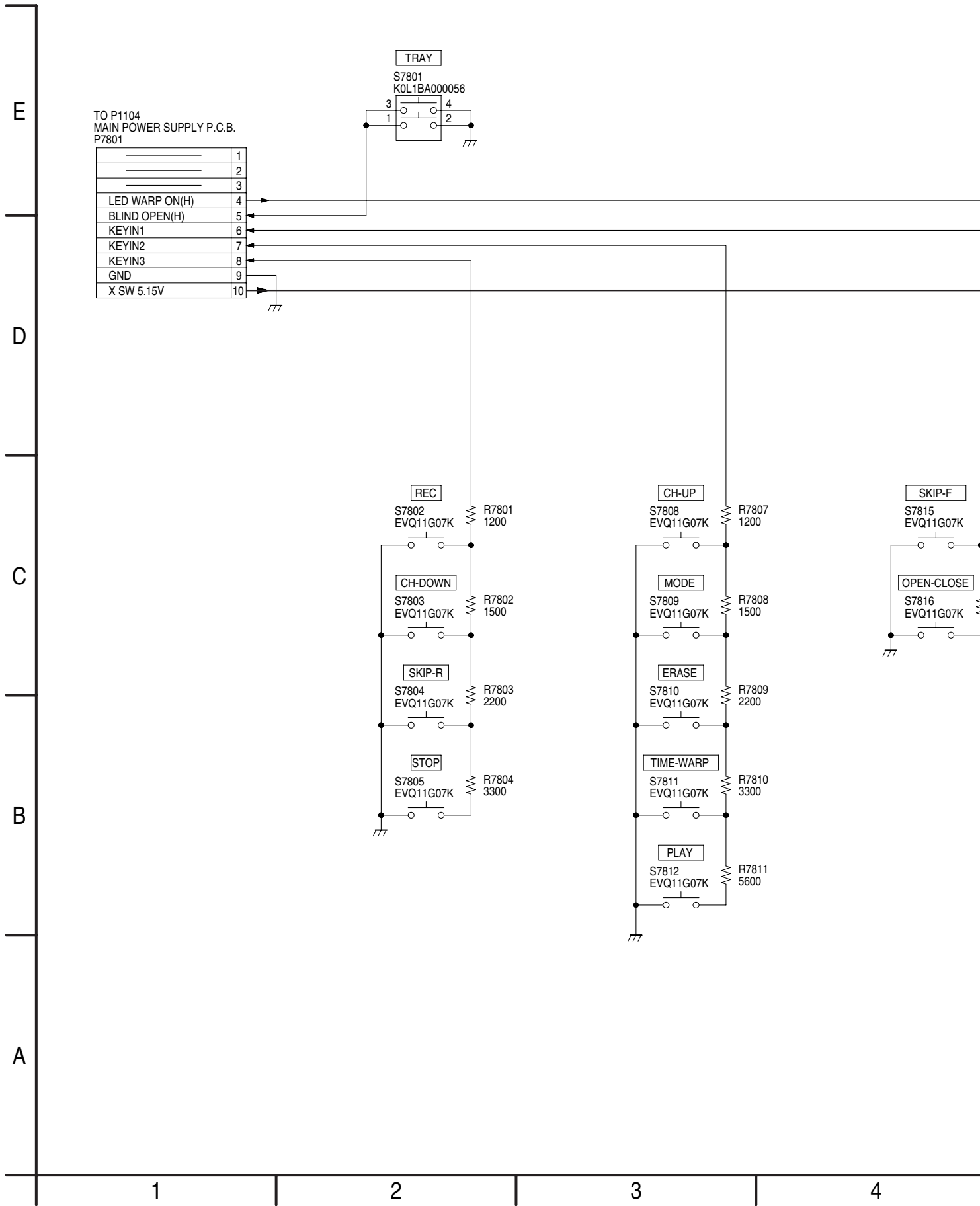


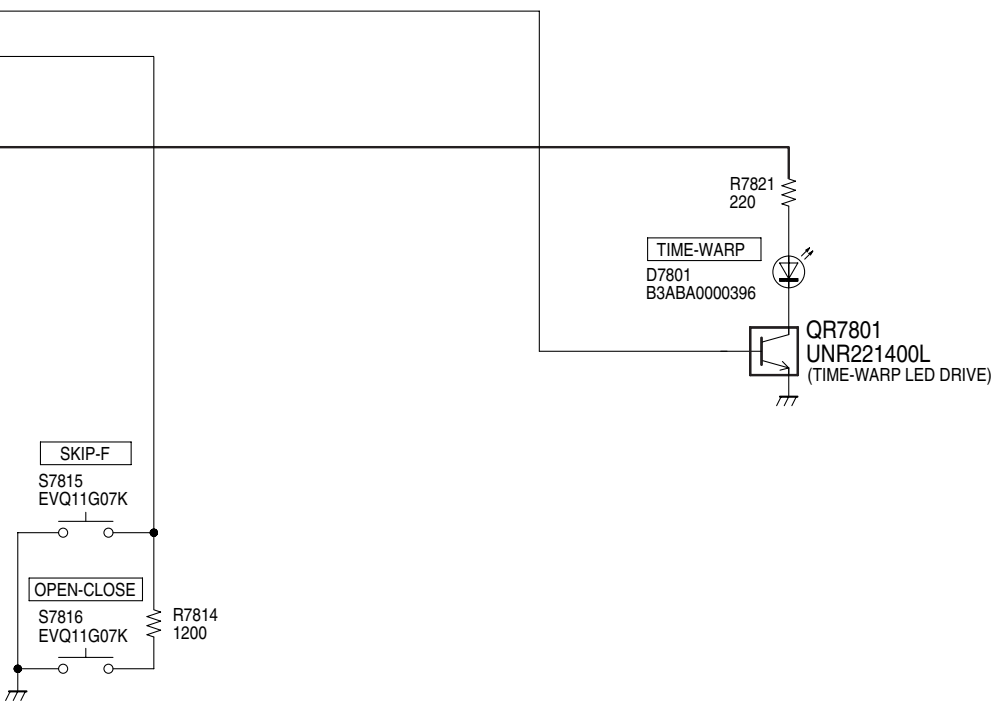


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
 THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
 SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60PP
 Front (L) Schematic Diagram

14.18. Front (R) Schematic Diagram





NOTE:DO NOT USE THE PART NUMBER SHOWN ON
THIS DRAWING FOR ORDERING. THE CORRECT
PART NUMBER IS SHOWN IN THE PARTS LIST,
AND MAY BE SLIGHTLY DIFFERNT OR AMENDED
SINCE THIS DRAWING WAS PREPARED.

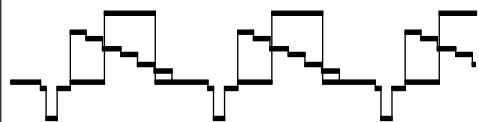
DMR-E60PP
Front (R) Schematic Diagram

5

6

7

WF No. PP9701-15 (REC/PLAY)



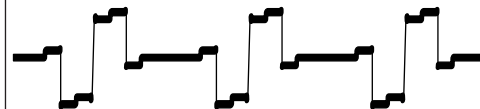
1.1Vp-p(20usec/div)

WF No. PP9701-16 (REC/PLAY)



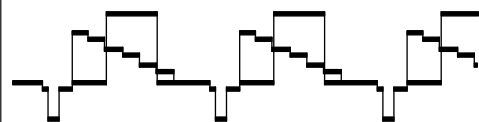
0.6Vp-p(20usec/div)

WF No. PP9701-18 (REC/PLAY)



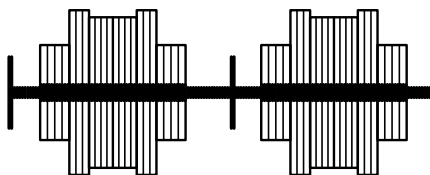
0.6Vp-p(20usec/div)

WF No. PP9701-20 (REC/PLAY)



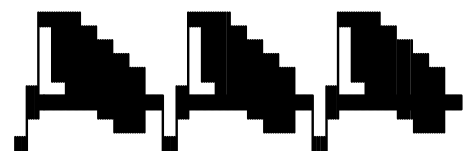
1.0Vp-p(20usec/div)

WF No. PP9701-22 (REC/PLAY)



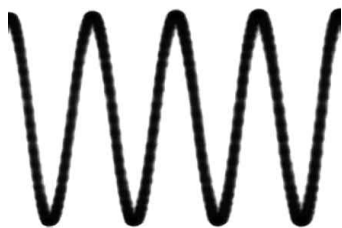
0.7Vp-p(20usec/div)

WF No. PP9701-28 (REC/PLAY)



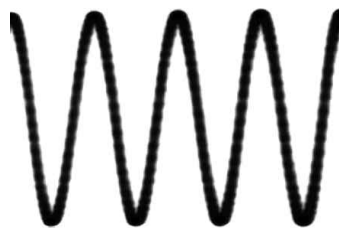
1.9Vp-p(20usec/div)

WF No. PP9702-12 (REC/PLAY)



1.6Vp-p(1msec/div)

WF No. PP9702-14 (REC/PLAY)



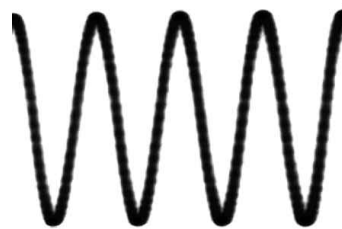
1.6Vp-p(1msec/div)

WF No. PP9702-21 (REC/PLAY)

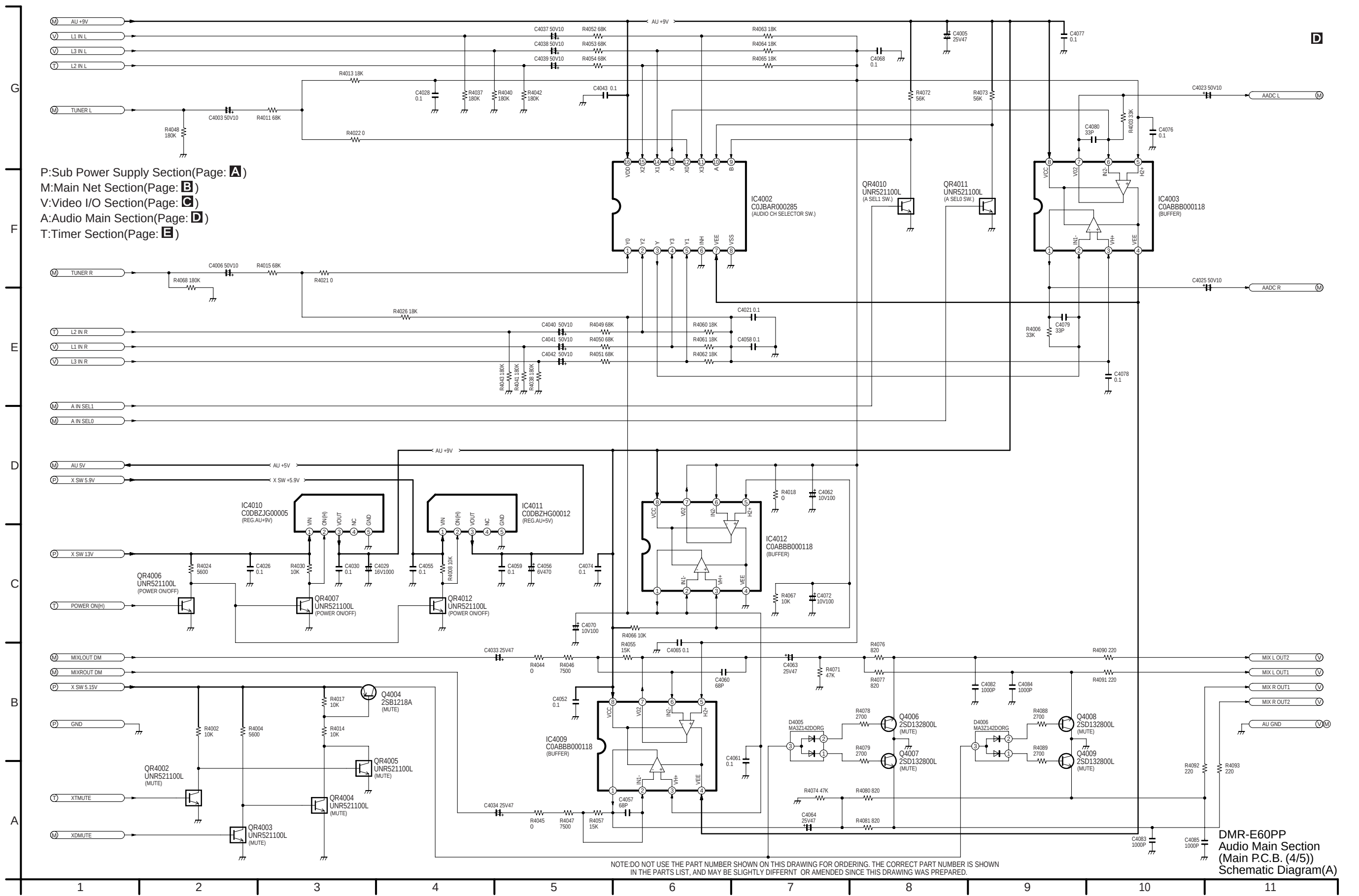


1.7Vp-p(1msec/div)

WF No. PP9702-19 (REC/PLAY)



1.7Vp-p(1msec/div)



P:Sub Power Supply Section(Page: **A**)

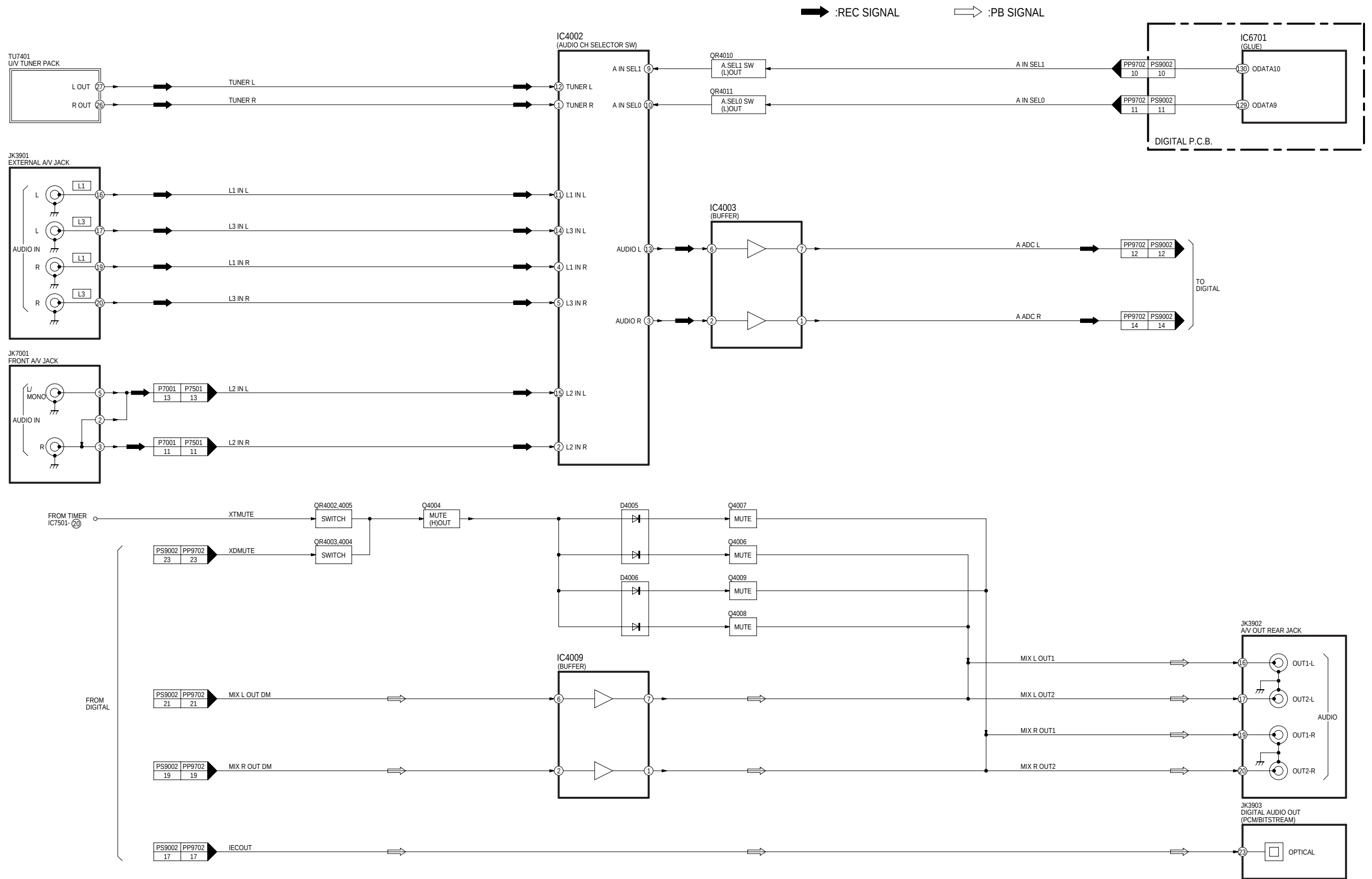
M:Main Net Section(Page: **B**)

V:Video I/O Section(Page: **C**)

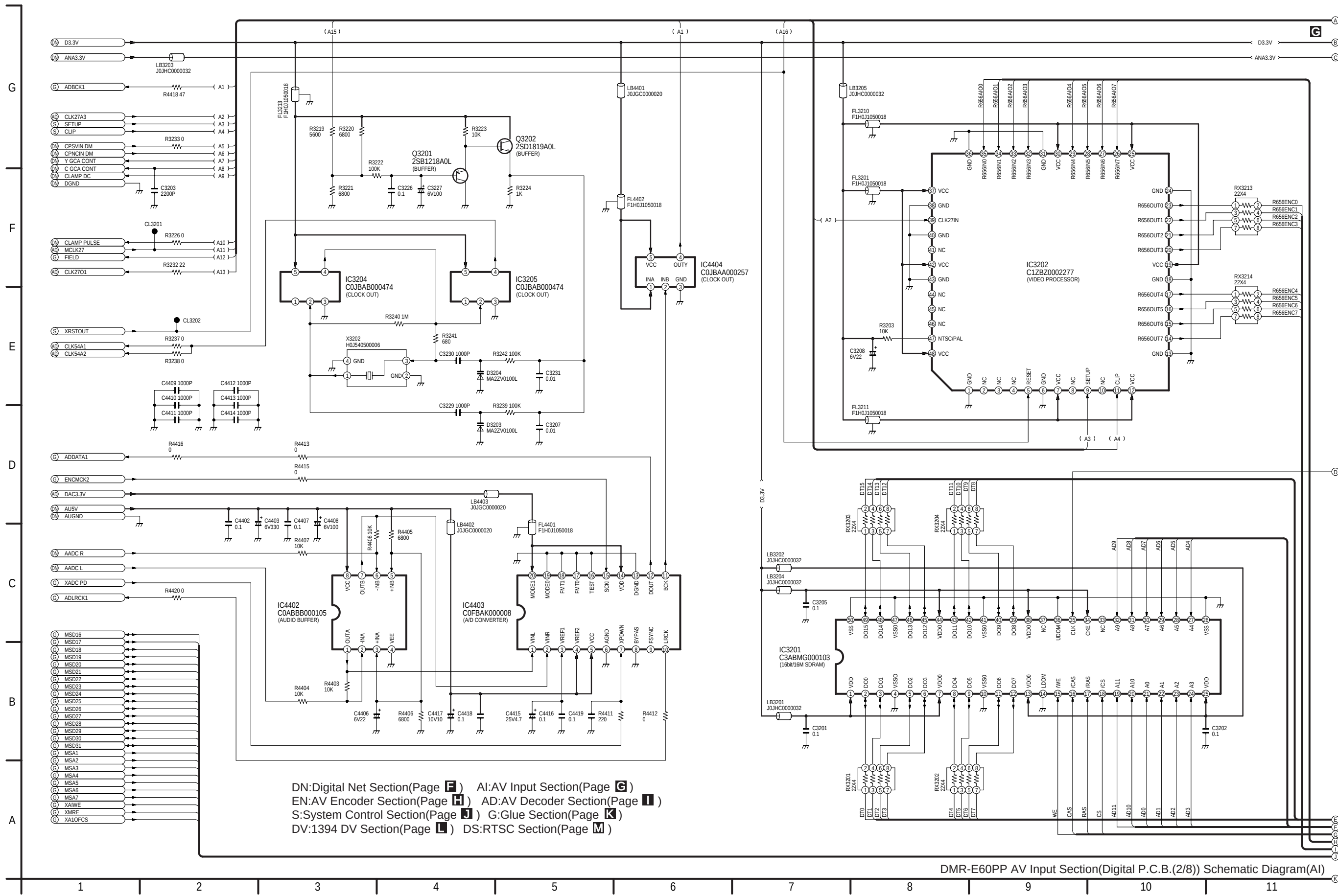
A:Audio Main Section(Page: **D**)

T:Timer Section(Page: **E**)

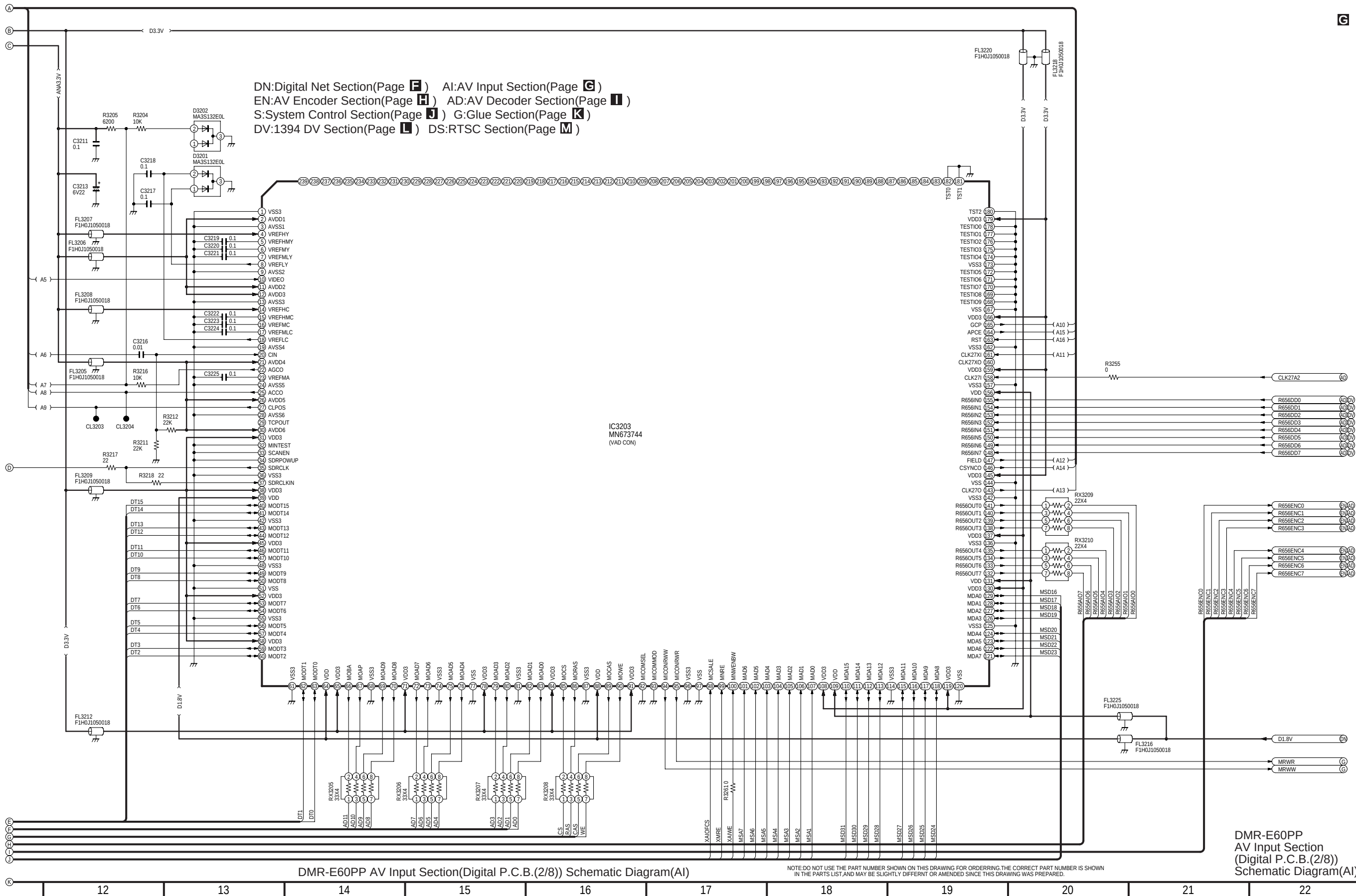
DMR-E60PP
Audio Main Section
(Main P.C.B. (4/5))
Schematic Diagram(A)

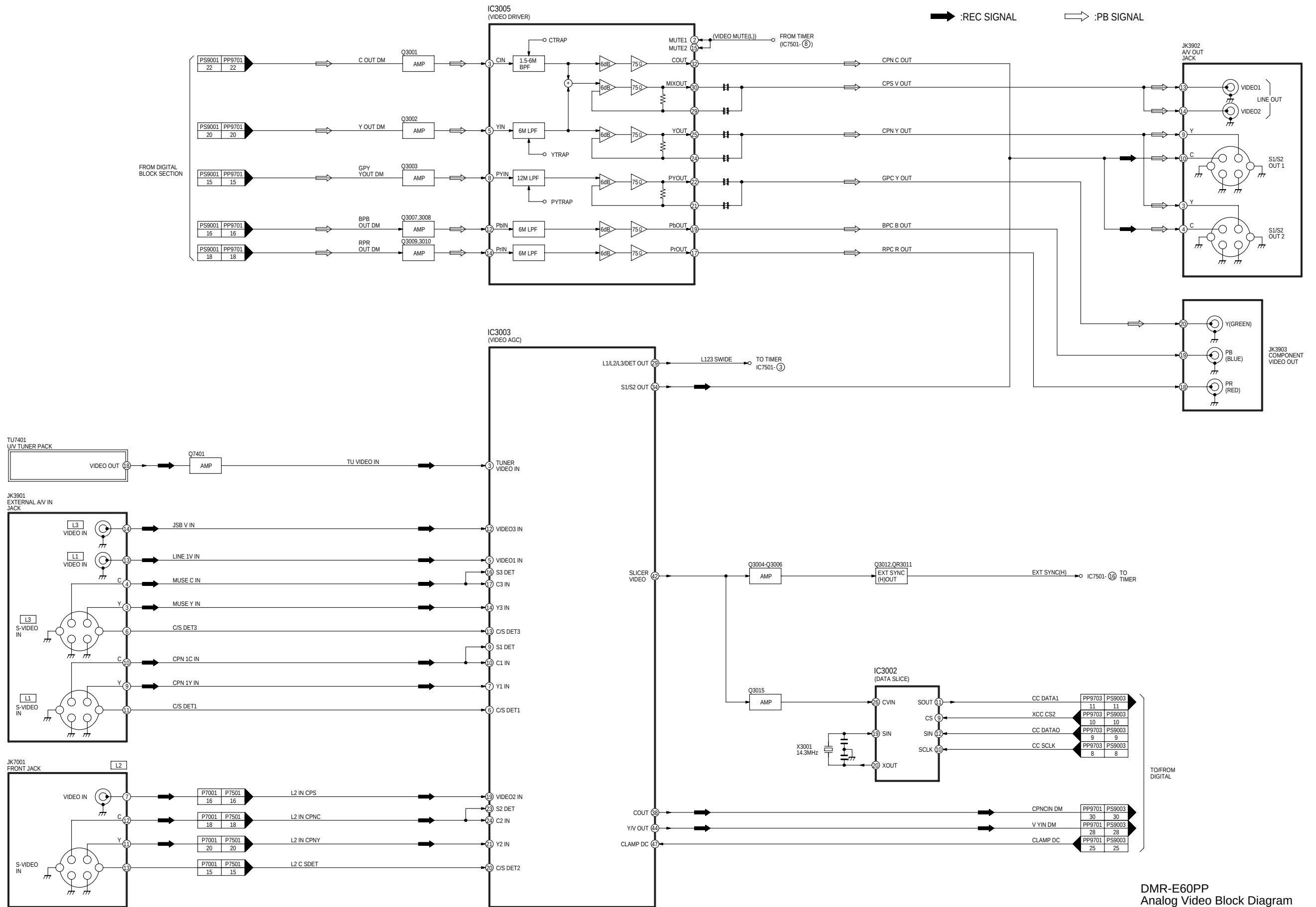


DMR-E60PP
Analog Audio Block Diagram

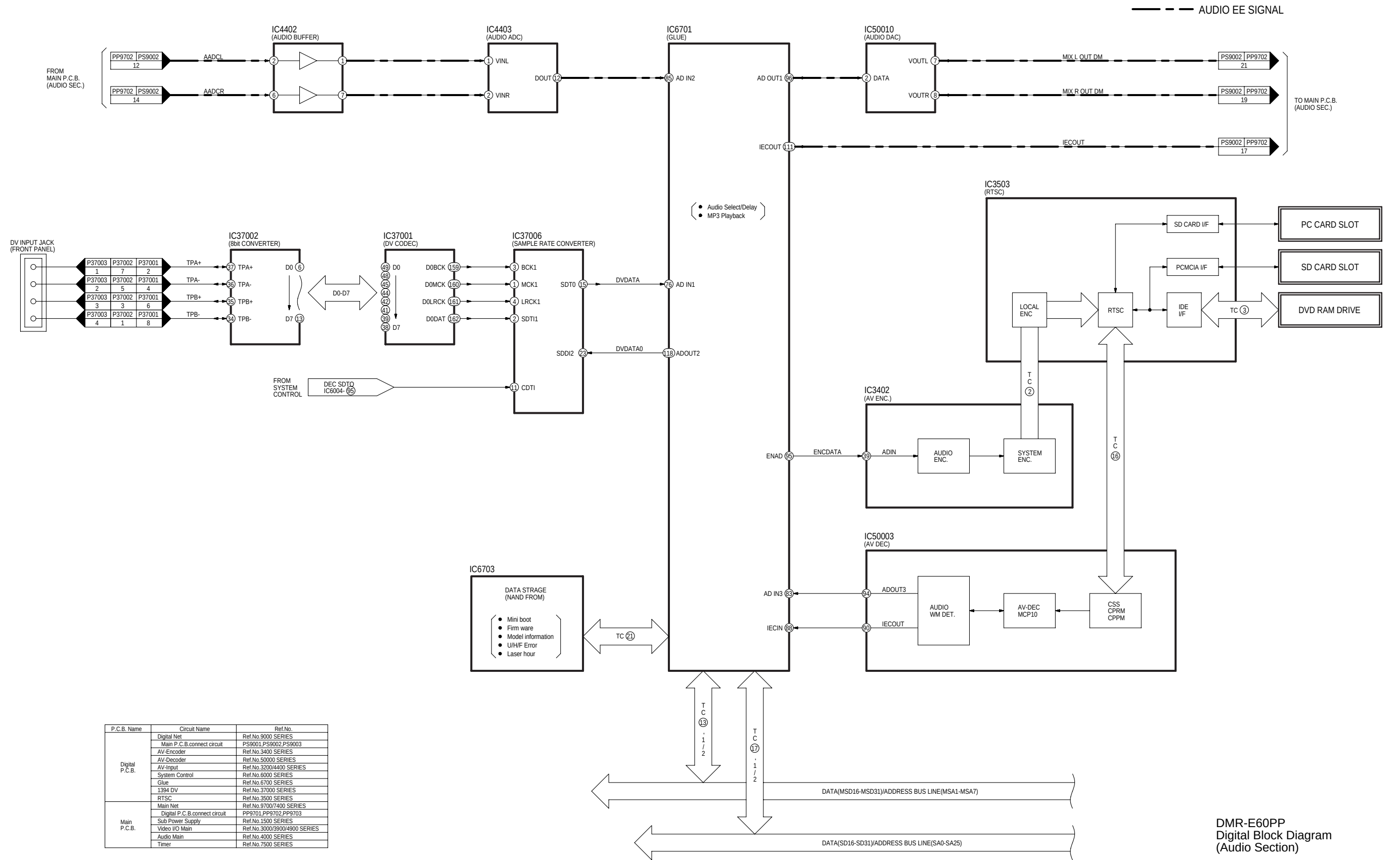


DMR-E60PP AV Input Section (Digital P.C.B. (2/8)) Schematic Diagram (AI)





DMR-E60PP
Analog Video Block Diagram



P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	Main Net	Ref.No.9700/7400 SERIES
Main P.C.B.	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-E60PP
Digital Block Diagram
(Audio Section)

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3203 / VAD CON		SIGNAL NAME	IC3202 / V-PROCESSOR	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656AIO0	35	R656IN0
	R656OUT1	140	R656AIO1	34	R656IN1
	R656OUT2	139	R656AIO2	33	R656IN2
	R656OUT3	138	R656AIO3	32	R656IN3
	R656OUT4	135	R656AIO4	29	R656IN4
	R656OUT5	134	R656AIO5	28	R656IN5
	R656OUT6	133	R656AIO6	27	R656IN6
	R656OUT7	132	R656AIO7	26	R656IN7

TC	IC3402 / AV ENC		SIGNAL NAME	IC3503 / RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	ED0	28	B2DAT0
	CDO1	64	ED1	29	B2DAT1
	CDO2	65	ED2	31	B2DAT2
	CDO3	67	ED3	32	B2DAT3
	CDO4	68	ED4	34	B2DAT4
	CDO5	69	ED5	35	B2DAT5
	CDO6	72	ED6	36	B2DAT6
	CDO7	73	ED7	38	B2DAT7

TC	IC3503 / RTSC		SIGNAL NAME	FP3501 (TO DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	IHDD0	211	RAMD0	24	DD0
	IHDD1	215	RAMD1	26	DD1
	IHDD2	219	RAMD2	28	DD2
	IHDD3	221	RAMD3	30	DD3
	IHDD4	225	RAMD4	32	DD4
	IHDD5	230	RAMD5	34	DD5
	IHDD6	232	RAMD6	36	DD6
	IHDD7	235	RAMD7	38	DD7
	IHDD8	234	RAMD8	37	DD8
	IHDD9	231	RAMD9	35	DD9
	IHDD10	226	RAMD10	33	DD10
	IHDD11	224	RAMD11	31	DD11
	IHDD12	220	RAMD12	29	DD12
	IHDD13	216	RAMD13	27	DD13
	IHDD14	214	RAMD14	25	DD14
	IHDD15	210	RAMD15	23	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	MODT0	63	DT0	2	DO0
	MODT1	62	DT1	3	DO1
	MODT2	60	DT2	5	DO2
	MODT3	59	DT3	6	DO3
	MODT4	57	DT4	8	DO4
	MODT5	56	DT5	9	DO5
	MODT6	54	DT6	11	DO6
	MODT7	53	DT7	12	DO7
	MODT8	50	DT8	39	DO8
	MODT9	49	DT9	40	DO9
	MODT10	47	DT10	42	DO10
	MODT11	46	DT11	43	DO11
	MODT12	44	DT12	45	DO12
	MODT13	43	DT13	46	DO13
	MODT14	41	DT14	48	DO14
	MODT15	40	DT15	49	DO15
	MOAD0	83	AD0	21	A0
	MOAD1	82	AD1	22	A1
	MOAD2	80	AD2	23	A2
	MOAD3	79	AD3	24	A3
	MOAD4	76	AD4	27	A4
	MOAD5	75	AD5	28	A5
	MOAD6	73	AD6	29	A6
	MOAD7	72	AD7	30	A7
	MOAD8	70	AD8	31	A8
	MOAD9	69	AD9	32	A9
	MOAP	67	AD10	20	A10
	MOBA	66	AD11	19	A11

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM(32bit/64M)	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3	197	MAA3	60	A3
	MA4	200	MAA4	61	A4
	MA5	201	MAA5	62	A5
	MA6	203	MAA6	63	A6
	MA7	204	MAA7	64	A7
	MA8	206	MAA8	65	A8
	MA9	207	MAA9	66	A9
	MA10	2	MAA10	24	A10

TC	IC3503 / RTSC		SIGNAL NAME	IC3501,IC3502/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	248	MADQB0	2	DQ0
	MDQ1	250	MADQB1	4	DQ1
	MDQ2	252	MADQB2	5	DQ2
	MDQ3	254	MADQB3	7	DQ3
	MDQ4	258	MADQB4	8	DQ4
	MDQ5	261	MADQB5	10	DQ5
	MDQ6	263	MADQB6	11	DQ6
	MDQ7	266	MADQB7	13	DQ7
	MDQ8	267	MADQB8	42	DQ8
	MDQ9	264	MADQB9	44	DQ9
	MDQ10	262	MADQB10	45	DQ10
	MDQ11	259	MADQB11	47	DQ11
	MDQ12	255	MADQB12	48	DQ12
	MDQ13	253	MADQB13	50	DQ13
	MDQ14	251	MADQB14	51	DQ14
	MDQ15	249	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, TC 22, TC 23)

TC	IC3202/V-PROCESSOR		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	23	R656ENC0	138	VDIN0
	R656OUT1	22	R656ENC1	137	VDIN1
	R656OUT2	21	R656ENC2	136	VDIN2
	R656OUT3	20	R656ENC3	134	VDIN3
	R656OUT4	17	R656ENC4	133	VDIN4
	R656OUT5	16	R656ENC5	132	VDIN5
	R656OUT6	15	R656ENC6	130	VDIN6
	R656OUT7	14	R656ENC7	129	VDIN7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC6004 / MAIN CPU		SIGNAL NAME	IC6002 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	35	MD0	2	DQ0
	MD1	36	MD1	4	DQ1
	MD2	37	MD2	5	DQ2
	MD3	38	MD3	7	DQ3
	MD4	39	MD4	8	DQ4
	MD5	40	MD5	10	DQ5
	MD6	41	MD6	11	DQ6
	MD7	42	MD7	13	DQ7
	MD8	46	MD8	42	DQ8
	MD9	47	MD9	44	DQ9
	MD10	48	MD10	45	DQ10
	MD11	49	MD11	47	DQ11
	MD12	50	MD12	48	DQ12
	MD13	51	MD13	50	DQ13
	MD14	52	MD14	51	DQ14
	MD15	53	MD15	53	DQ15
	MA0	5	MA0	23	A0
	MA1	6	MA1	24	A1
	MA2	7	MA2	25	A2
	MA3	8	MA3	26	A3
	MA4	9	MA4	29	A4
	MA5	10	MA5	30	A5
	MA6	11	MA6	31	A6
	MA7	12	MA7	32	A7
	MA8	13	MA8	33	A8
	MA9	14	MA9	34	A

TC	20-1		12-3		17-1		18		19-1		25		27	
SIGNAL NAME	IC6004/MAIN CPU		IC3503 / RTSC		IC6701/GLUE		IC6007 / BUFFER		IC6006 / LOADER		IC50003 / AVDEC		IC37001 / DV CODEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	186	SA0	-	-	-	-	-	-	-	-	-	-	-	-
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-	-	-
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-	-	-
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-	-	-
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-	-	-
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-	-	-
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-	-	-
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-	-	-
SA8	194	SA8	70	HADR8	-	-	-	-	4	A7	41	HA8	109	AD7
SA9	195	SA9	71	HADR9	-	-	-	-	42	A8	42	HA9	107	AD8
SA10	196	SA10	72	HADR10	-	-	-	-	41	A9	43	HA10	106	AD9
SA11	197	SA11	73	HADR11	-	-	-	-	40	A10	45	HA11	105	AD10
SA12	198	SA12	76	HADR12	-	-	-	-	39	A11	46	HA12	104	AD11
SA13	199	SA13	77	HADR13	-	-	-	-	38	A12	47	HA13	103	AD12
SA14	200	SA14	78	HADR14	-	-	-	-	37	A13	49	HA14	-	-
SA15	201	SA15	79	HADR15	-	-	-	-	36	A14	50	HA15	-	-
SA16	205	SA16	82	HADR16	-	-	-	-	35	A15	51	HA16	-	-
SA17	206	SA17	83	HADR17	-	-	-	-	34	A16	54	HA17	-	-
SA18	207	SA18	84	HADR18	-	-	-	-	3	A17	-	-	-	-
SA19	208	SA19	85	HADR19	-	-	-	-	-	-	-	-	-	-
SA20	209	SA20	86	HADR20	-	-	-	-	-	-	-	-	-	-
SA21	210	SA21	87	HADR21	-	-	-	-	-	-	-	-	-	-
SA22	211	SA22	-	-	174	ADR22	-	-	-	-	-	-	-	-
SA23	212	SA23	-	-	171	ADRH0	-	-	-	-	-	-	-	-
SA24	213	SA24	-	-	172	ADRH1	-	-	-	-	-	-	-	-
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-	-	-

TC	20-2		17-2		19-2	
SIGNAL NAME	IC6004 / MAIN CPU		IC6701 / GLUE		IC6006 / LOADER	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	135	SD16	201	LDTI 0	15	D0
SD17	136	SD17	200	LDTI 1	17	D1
SD18	137	SD18	199	LDTI 2	19	D2
SD19	138	SD19	202	LDTI 3	21	D3
SD20	139	SD20	197	LDTI 4	24	D4
SD21	140	SD21	196	LDTI 5	26	D5
SD22	141	SD22	198	LDTI 6	28	D6
SD23	142	SD23	195	LDTI 7	30	D7
SD24	144	SD24	194	LDTI 8	16	D8
SD25	145	SD25	192	LDTI 9	18	D9
SD26	146	SD26	191	LDTI 10	20	D10
SD27	147	SD27	189	LDTI 11	22	D11
SD28	148	SD28	190	LDTI 12	25	D12
SD29	149	SD29	188	LDTI 13	27	D13
SD30	150	SD30	187	LDTI 14	29	D14
SD31	151	SD31	185	LDTI 15	31	D15

IC Pin Terminal Chart (TC 28 - TC 31)

TC	IC5003 / AV DEC		SIGNAL NAME	IC37001 / DV DEC	
	Port Name	Pin No		Pin No	Port Name
28	VDOU0	140	R656DEC0	157	R656IN0
	VDOU1	141	R656DEC1	156	R656IN1
	VDOU2	142	R656DEC2	155	R656IN2
	VDOU3	143	R656DEC3	154	R656IN3
	VDOU4	145	R656DEC4	152	R656IN4
	VDOU5	146	R656DEC5	151	R656IN5
	VDOU6	147	R656DEC6	150	R656IN6
	VDOU7	149	R656DEC7	149	R656IN7

TC	IC5003 / AV DEC		SIGNAL NAME	IC50009 / BUFFER	
	Port Name	Pin No		Pin No	Port Name
29	VDOU0	140	R656DEC0	2	I0
	VDOU1	141	R656DEC1	3	I1
	VDOU2	142	R656DEC2	4	I2
	VDOU3	143	R656DEC3	5	I3
	VDOU4	145	R656DEC4	6	I4
	VDOU5	146	R656DEC5	7	I5
	VDOU6	147	R656DEC6	8	I6
	VDOU7	149	R656DEC7	9	I7

TC	IC37001 / DV CODEC		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
30	REC656OUT0	145	R656DD0	155	R656IN0
	REC656OUT1	144	R656DD1	154	R656IN1
	REC656OUT2	143	R656DD2	153	R656IN2
	REC656OUT3	142	R656DD3	152	R656IN3
	REC656OUT4	140	R656DD4	151	R656IN4
	REC656OUT5	139	R656DD5	150	R656IN5
	REC656OUT6	138	R656DD6	149	R656IN6
	REC656OUT7	137	R656DD7	148	R656IN7

TC	IC50009 / BUFFER		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
31	REC656OUT0	145	R656DD0	155	R656IN0
	REC656OUT1	144	R656DD1	154	R656IN1
	REC656OUT2	143	R656DD2	153	R656IN2
	REC656OUT3	142	R656DD3	152	R656IN3
	REC656OUT4	140	R656DD4	151	R656IN4
	REC656OUT5	139	R656DD5	150	R656IN5
	REC656OUT6	138	R656DD6	149	R656IN6
	REC656OUT7	137	R656DD7	148	R656IN7

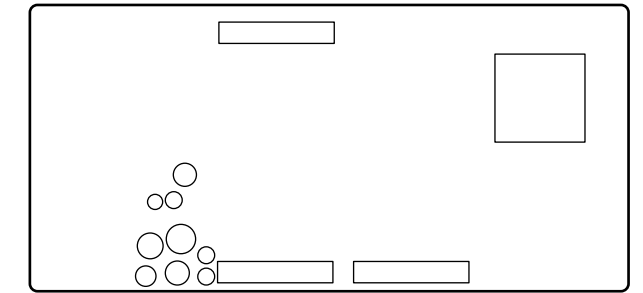
MSD16 - MSD31 DATA BUS LINE (TC10-1, TC11-1, TC12-1, TC13-1, TC14-1, TC26-1)

TC	10-1		11-1		12-1		13-1		14-1		26-1	
SIGNAL NAME	IC3203/VAD CON		IC3402/ AV ENC		IC3503/RTSC		IC6701/GLUE		IC50003/AVDEC		IC37001/DV CODEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSD16	129	MDA0	81	HD0	108	HDAT0	12	LDEV0	55	HD0	101	ADDT0
MSD17	128	MDA1	82	HD1	107	HDAT1	13	LDEV1	56	HD1	100	ADDT1
MSD18	127	MDA2	85	HD2	106	HDAT2	11	LDEV2	57	HD2	99	ADDT2
MSD19	126	MDA3	86	HD3	105	HDAT3	10	LDEV3	59	HD3	98	ADDT3
MSD20	124	MDA4	88	HD4	103	HDAT4	7	LDEV4	60	HD4	96	ADDT4
MSD21	123	MDA5	89	HD5	102	HDAT5	8	LDEV5	61	HD5	95	ADDT5
MSD22	122	MDA6	90	HD6	100	HDAT6	9	LDEV6	63	HD6	94	ADDT6
MSD23	121	MDA7	92	HD7	99	HDAT7	14	LDEV7	64	HD7	93	ADDT7
MSD24	118	MDA8	93	HD8	98	HDAT8	2	LDEV8	65	HD8	91	ADDT8
MSD25	117	MDA9	94	HD9	97	HDAT9	4	LDEV9	67	HD9	90	ADDT9
MSD26	116	MDA10	97	HD10	96	HDAT10	3	LDEV10	68	HD10	89	ADDT10
MSD27	115	MDA11	98	HD11	95	HDAT11	208	LDEV11	70	HD11	88	ADDT11
MSD28	113	MDA12	99	HD12	94	HDAT12	207	LDEV12	72	HD12	86	ADDT12
MSD29	112	MDA13	101	HD13	90	HDAT13	6	LDEV13	73	HD13	85	ADDT13
MSD30	111	MDA14	102	HD14	89	HDAT14	205	LDEV14	74	HD14	84	ADDT14
MSD31	110	MDA15	103	HD15	88	HDAT15	203	LDEV15	76	HD15	83	ADDT15

MSA1 - MSA7 ADDRESS BUS LINE (TC24, TC10-2, TC11-2, TC12-2, TC13-2, TC14-2, TC26-2)

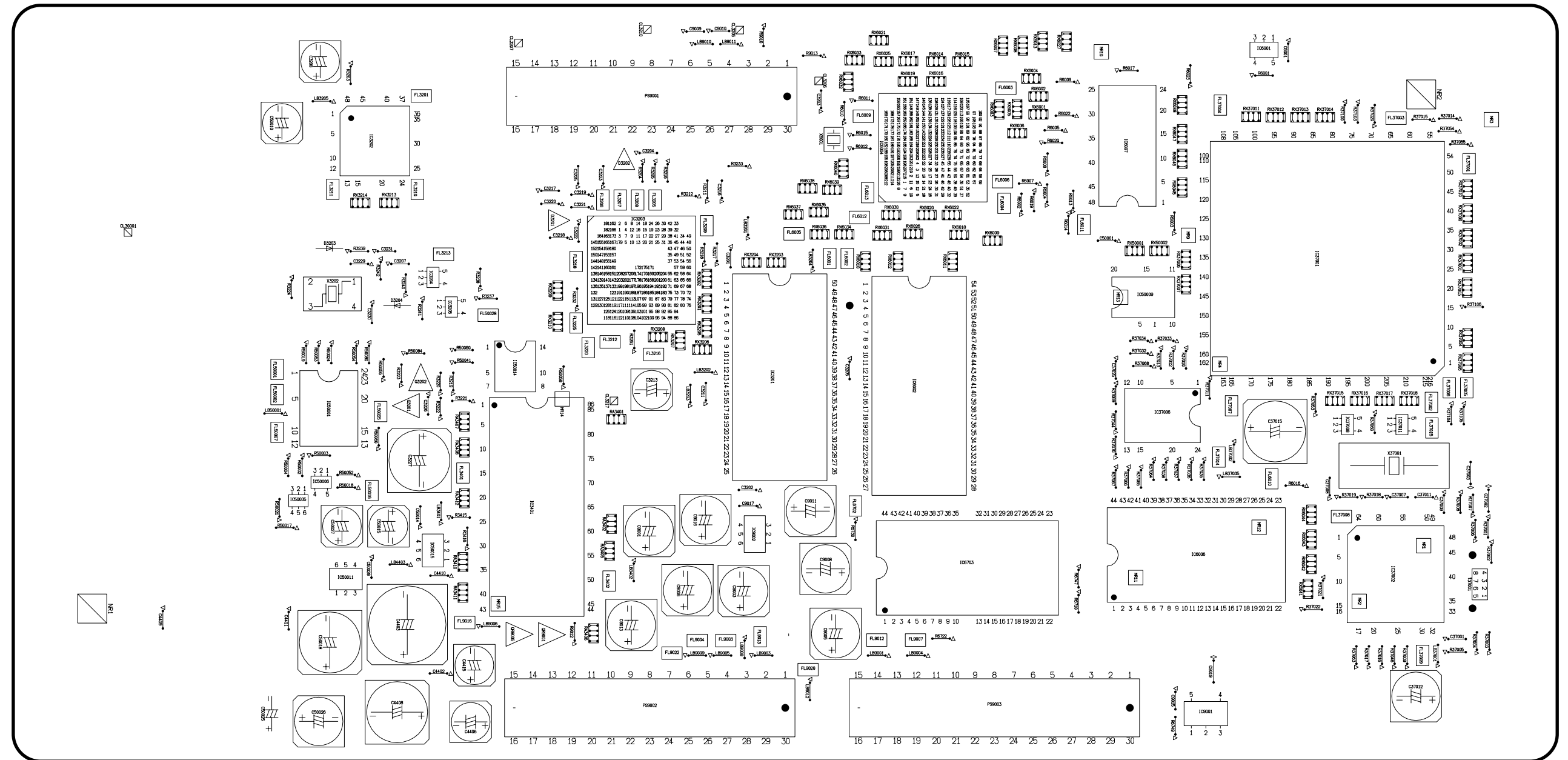
TC	24		10-2		11-2		12-2		13-2		14-2		26-2	
SIGNAL NAME	IC6007/16bit BUFFER		IC3203/VAD CON		IC3402/AV ENC		IC3503/RTSC		IC6701/GLUE		IC50003/AVDEC		IC37001/DV CODEC	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	23	4Y4	107	MAD0	106	HA0	61	HADR1	167	ADRL1	32	HA1	117	AD0
MSA2	22	4Y3	106	MAD1	107	HA1	64	HADR2	164	ADRL2	33	HA2	116	AD1
MSA3	20	4Y2	105	MAD2	108	HA2	65	HADR3	165	ADRL3	35	HA3	115	AD2
MSA4	19	4Y1	104	MAD3	109	HA3	66	HADR4	166	ADRL4	36	HA4	114	AD3
MSA5	17	3Y4	103	MAD4	105	HA4	67	HADR5	163	ADRL5	37	HA5	112	AD4
MSA6	16	3Y3	102	MAD5	-	-	68	HADR6	170	ADRL6	38	HA6	111	AD5
MSA7	14	3Y2	101	MAD6	-	-	69	HADR7	168	ADRL7	40	HA7	110	AD6

OVER VIEW

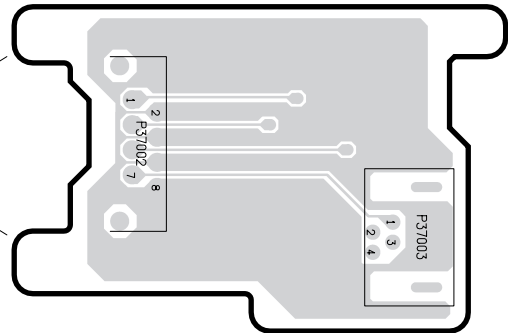


*IC6703 is not supplied in the form of an individual part.
When replacing, be sure to replace the Digital P.C.B.
and not IC6703 singly.

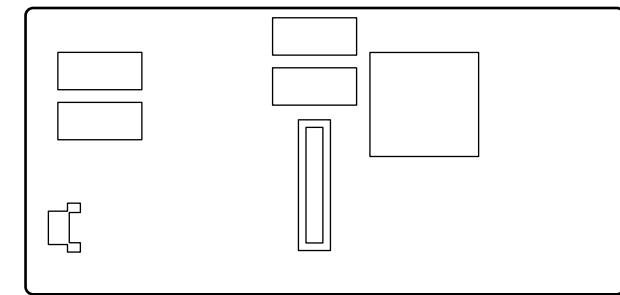
DIGITAL P.C.B. (1/2)



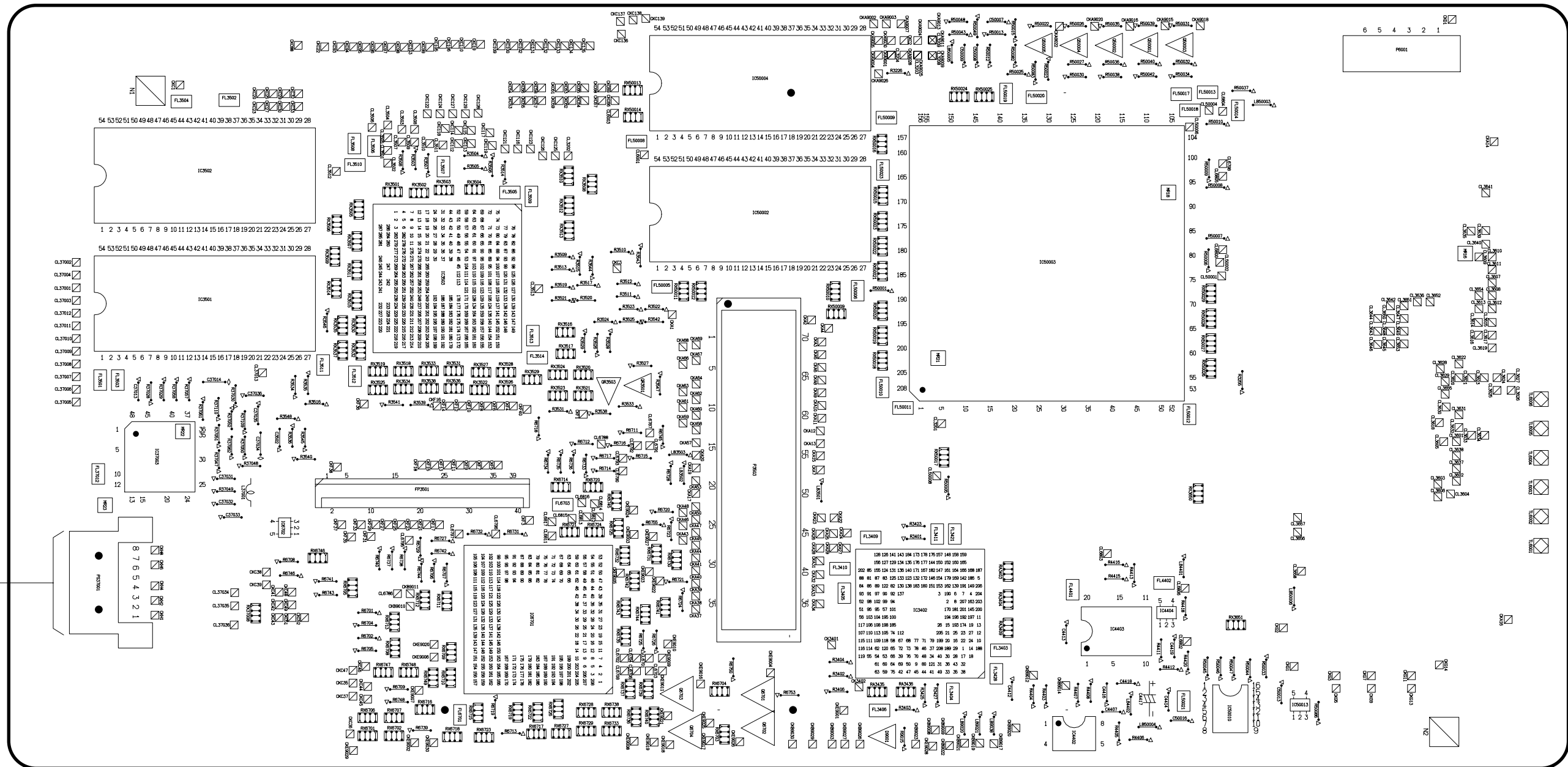
DV JACK P.C.B.



OVER VIEW



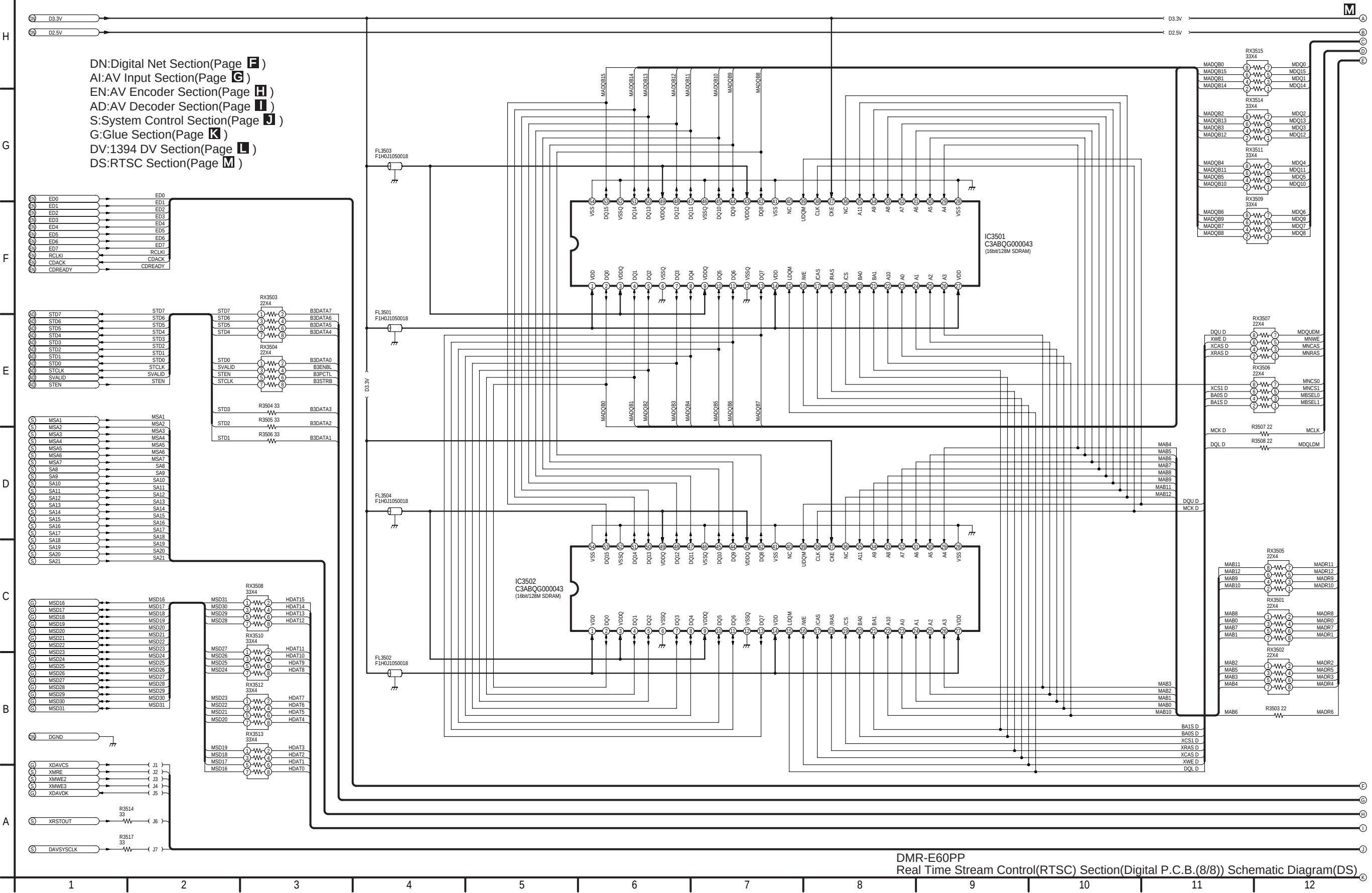
DIGITAL P.C.B. (2/2)



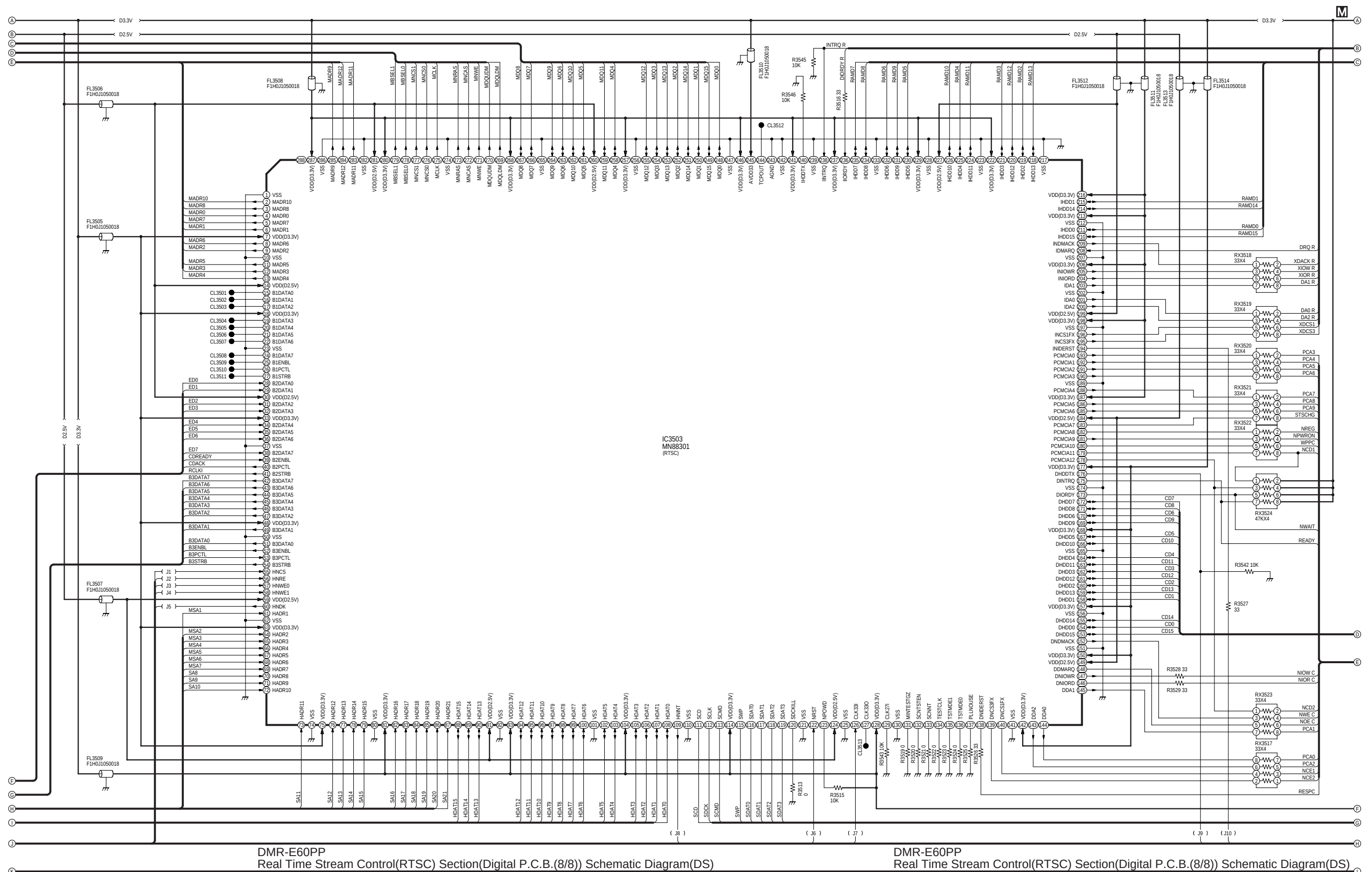
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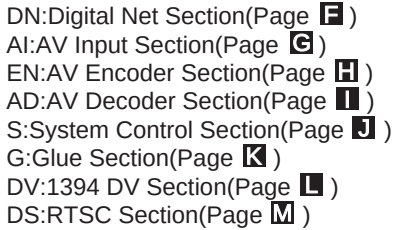
DMR-E60PP
DV JACK P.C.B. (REP3540AB)
DIGITAL P.C.B. (2/2) (REP3543B)

[illegible]

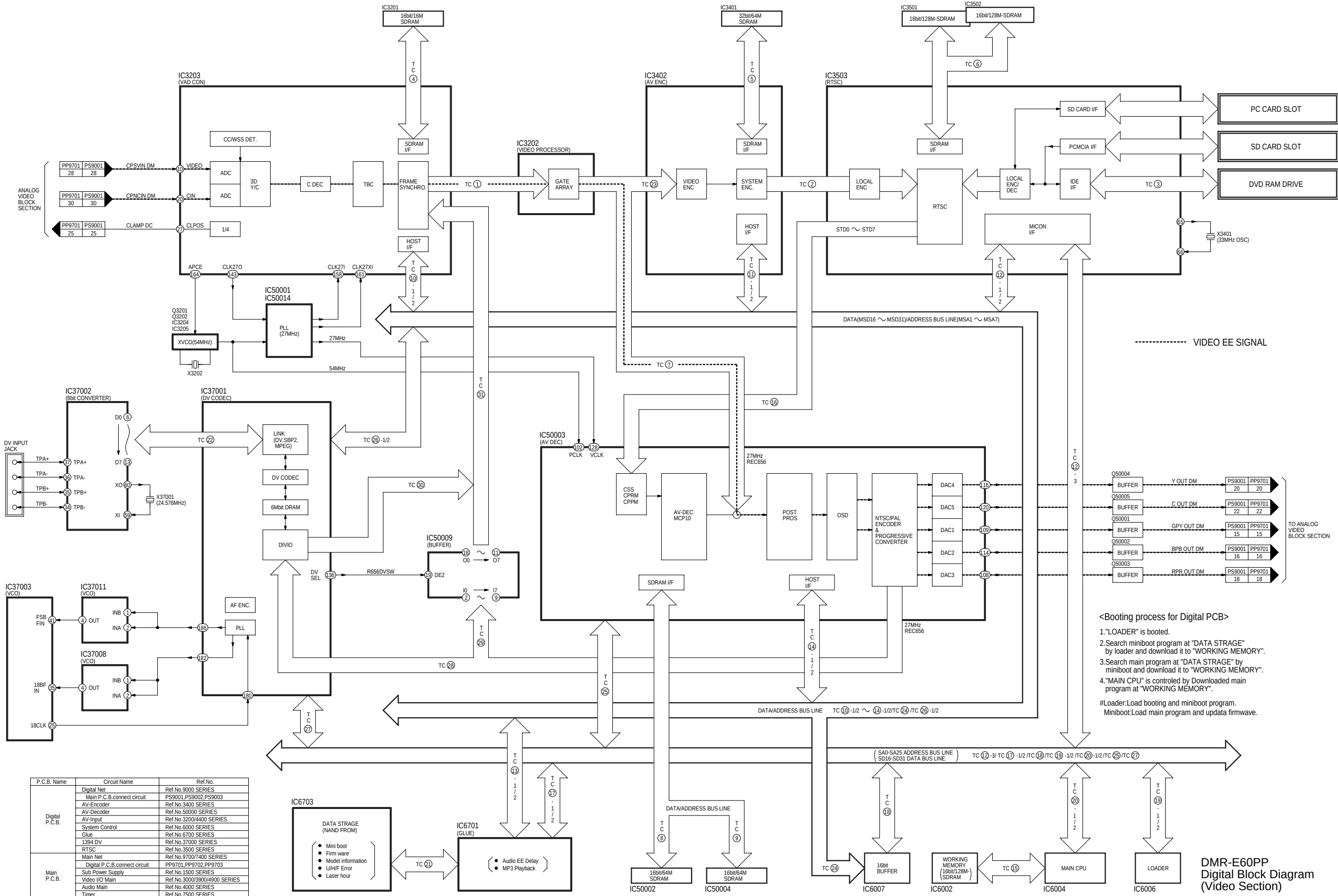


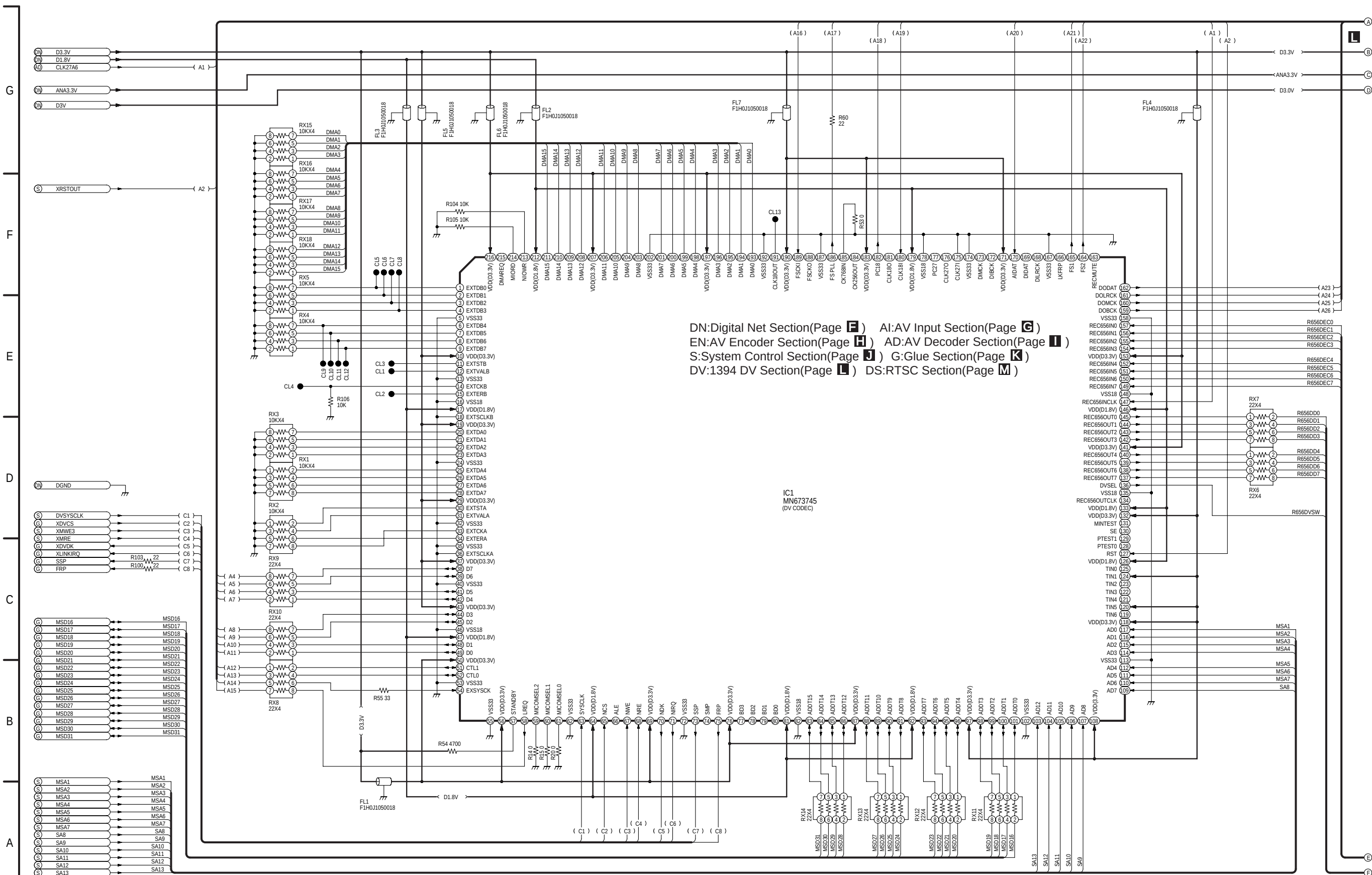
DMR-E60PP
Real Time Stream Control (RTSC) Section (Digital P.C.B. (8/8)) Schematic Diagram (DS)



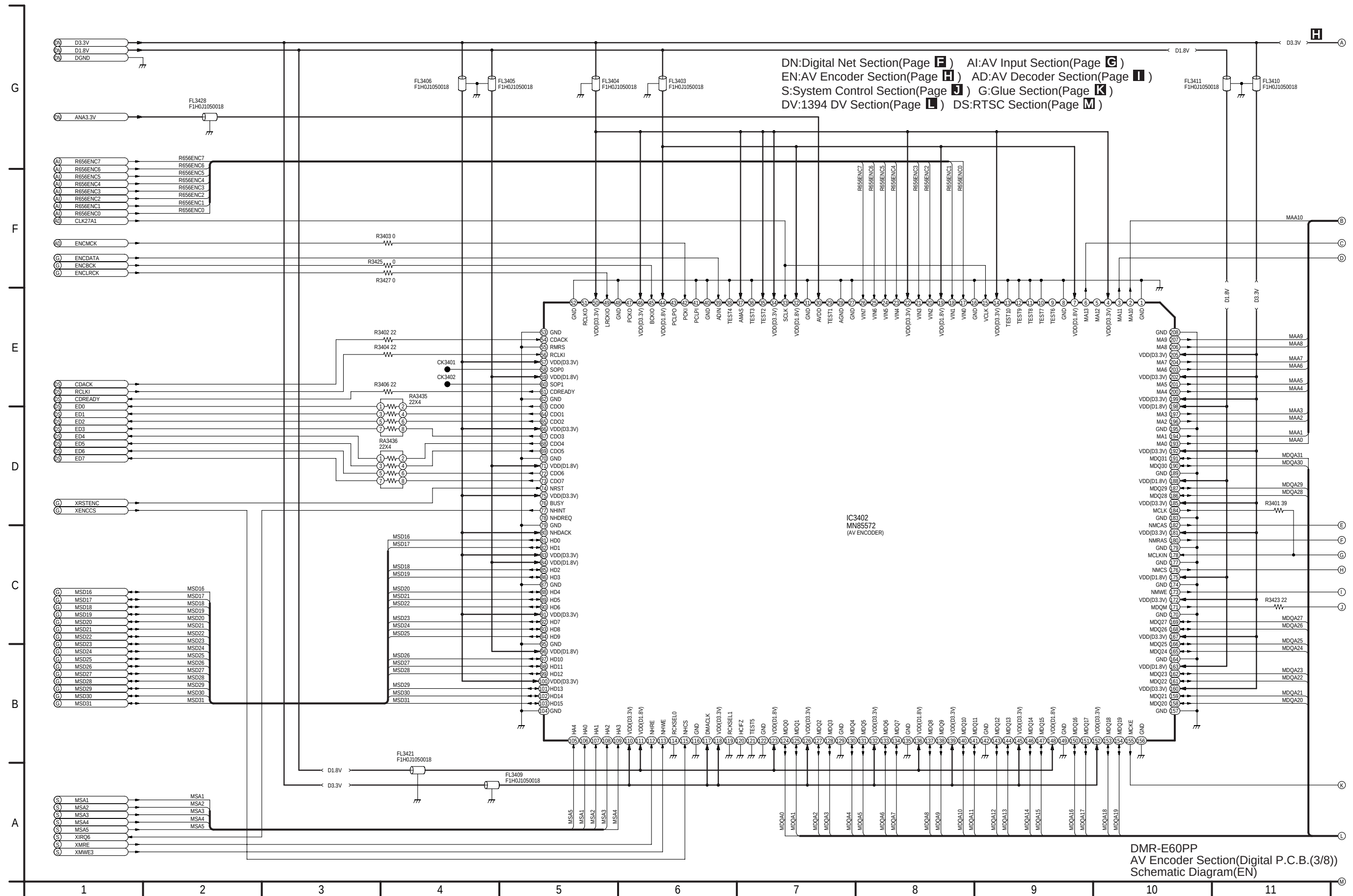


DMR-E60PP
Real Time Stream Control(RTSC) Section(Digital P.C.B.(8/8)) Schematic Diagram(DS)

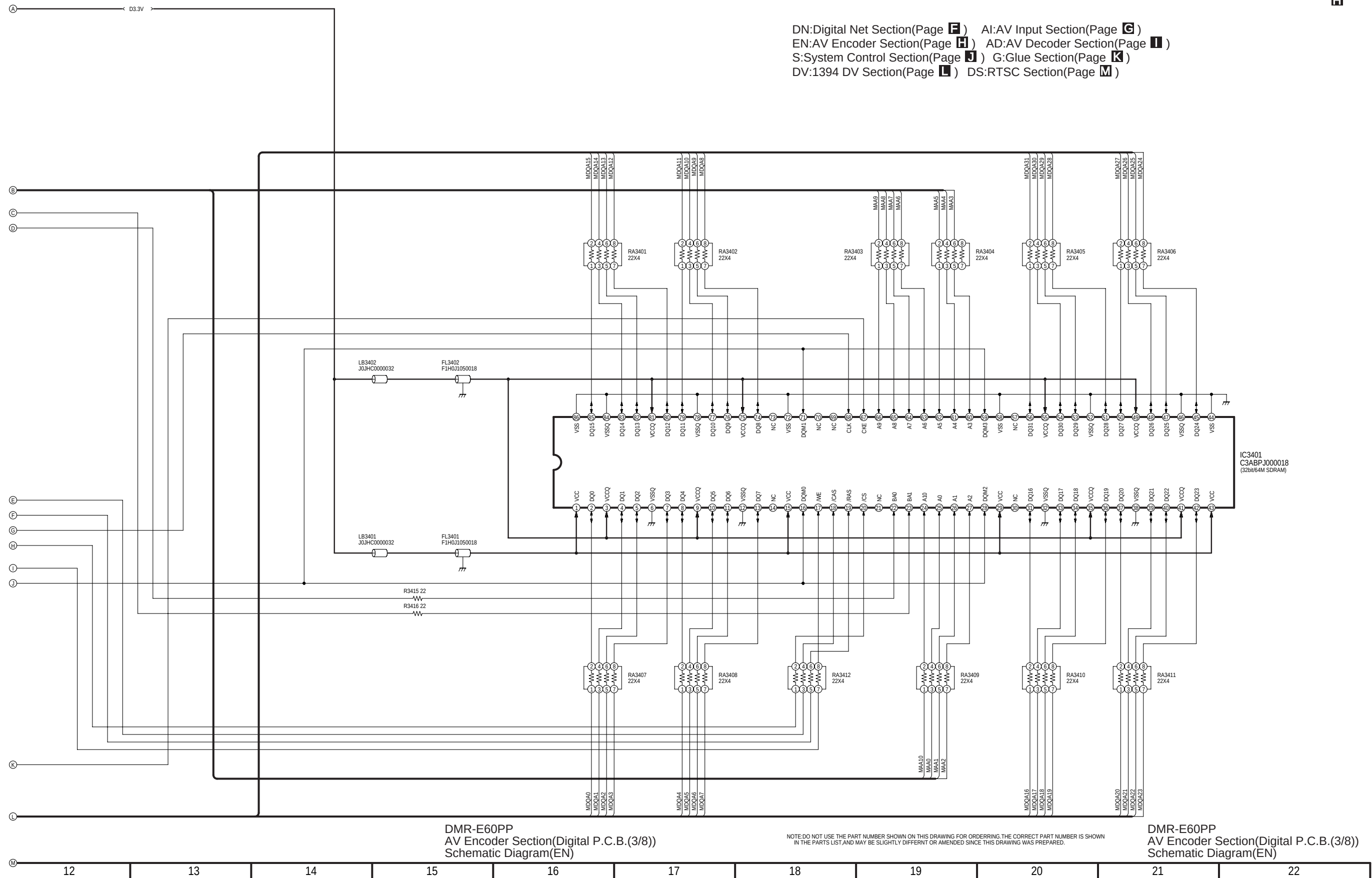


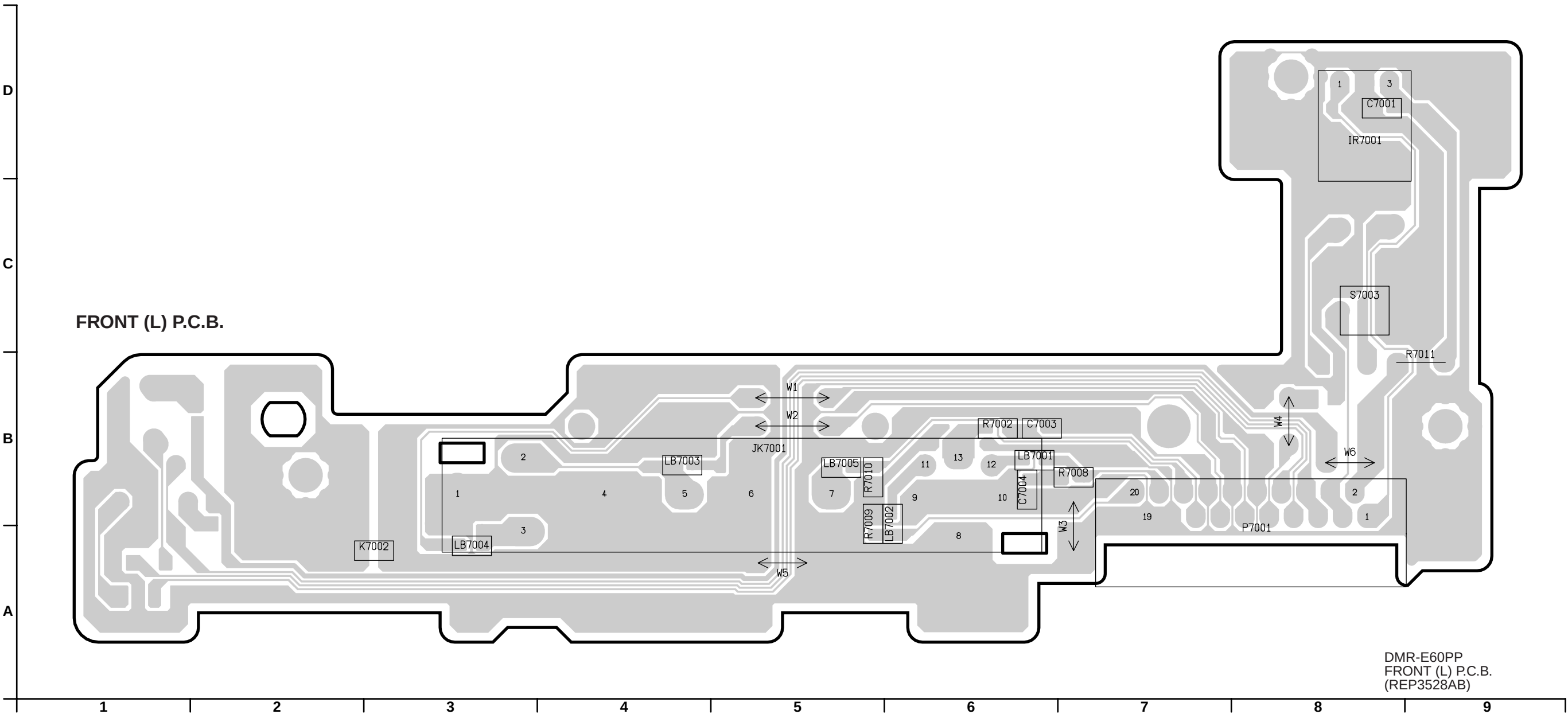


DN:Digital Net Section(Page F) AI:AV Input Section(Page G)
EN:AV Encoder Section(Page H) AD:AV Decoder Section(Page I)
S:System Control Section(Page J) G:Glue Section(Page K)
DV:1394 DV Section(Page L) DS:RTSC Section(Page M)

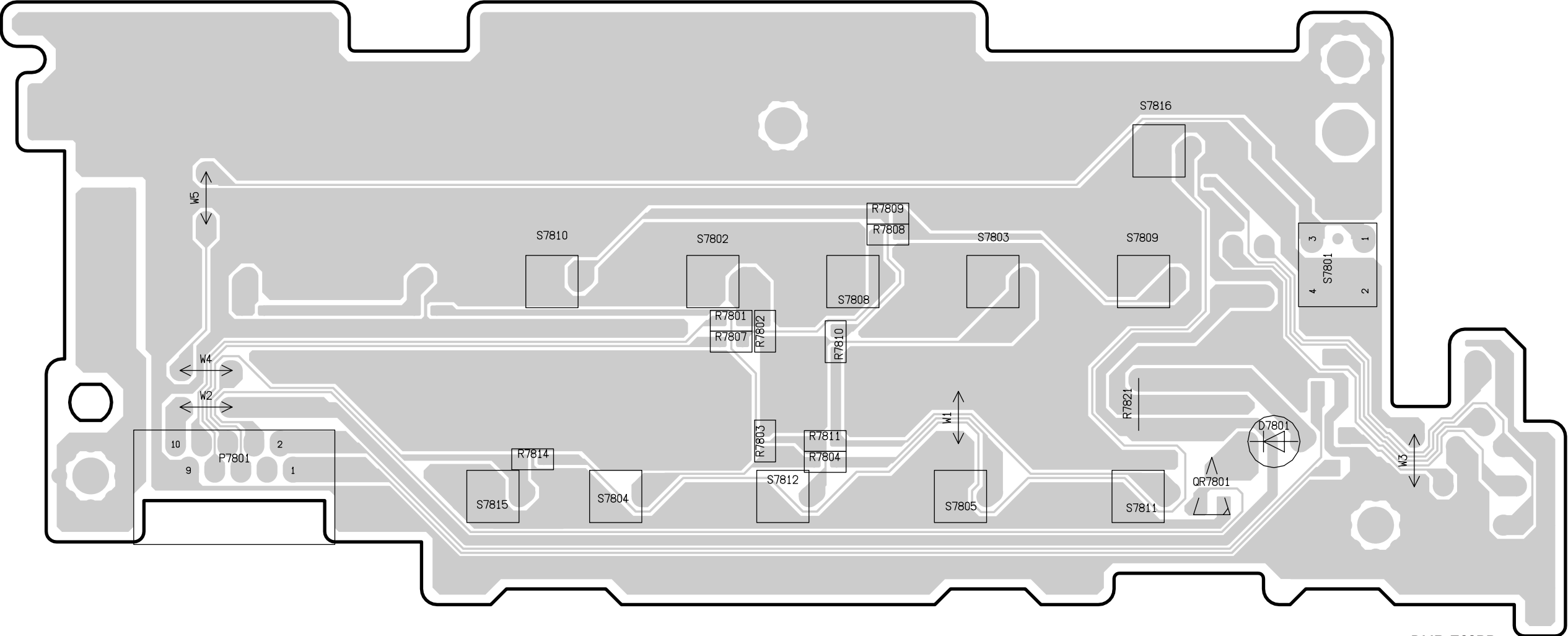


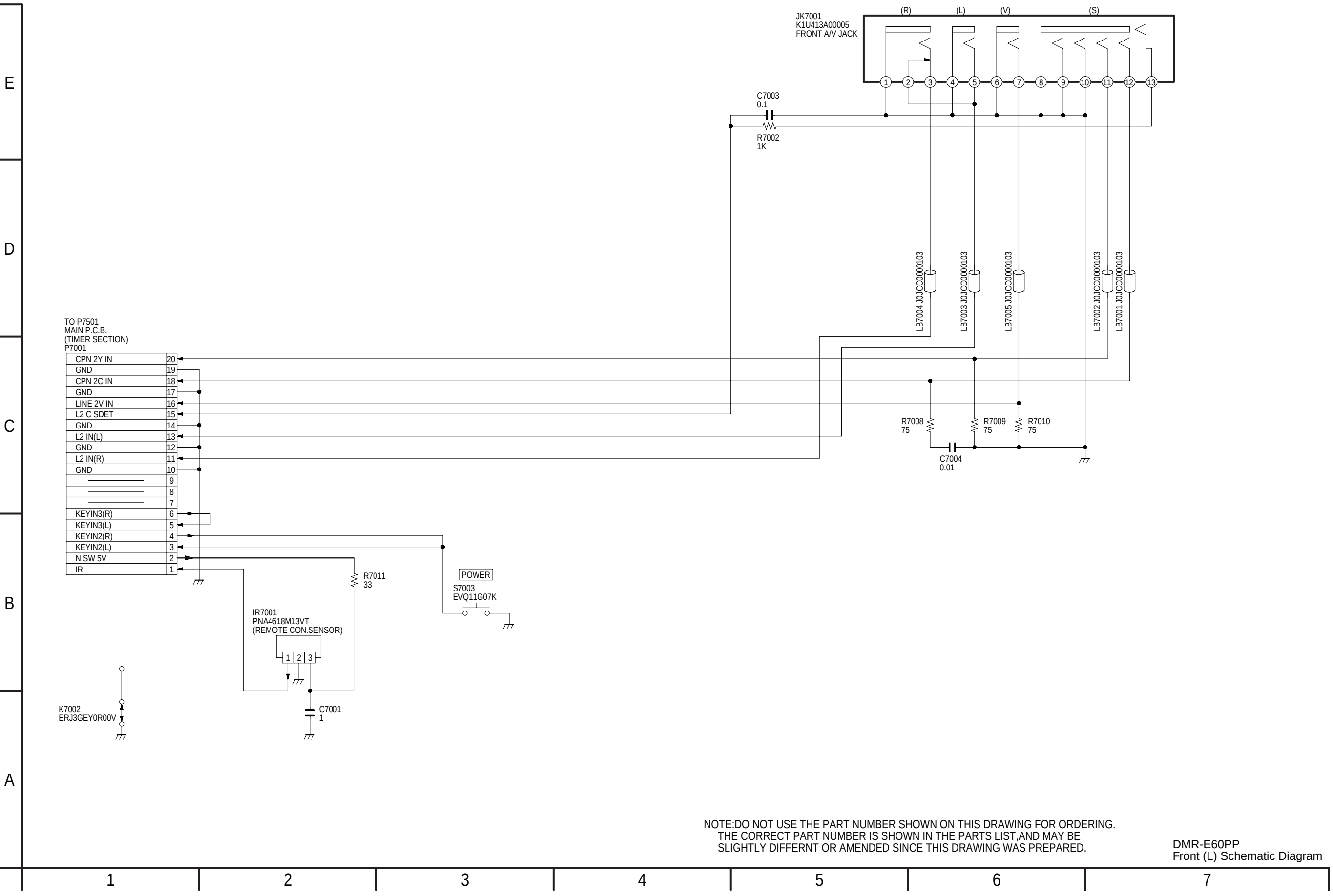
DN:Digital Net Section(Page **F**) AI:AV Input Section(Page **G**)
EN:AV Encoder Section(Page **H**) AD:AV Decoder Section(Page **I**)
S:System Control Section(Page **J**) G:Glue Section(Page **K**)
DV:1394 DV Section(Page **L**) DS:RTSC Section(Page **M**)





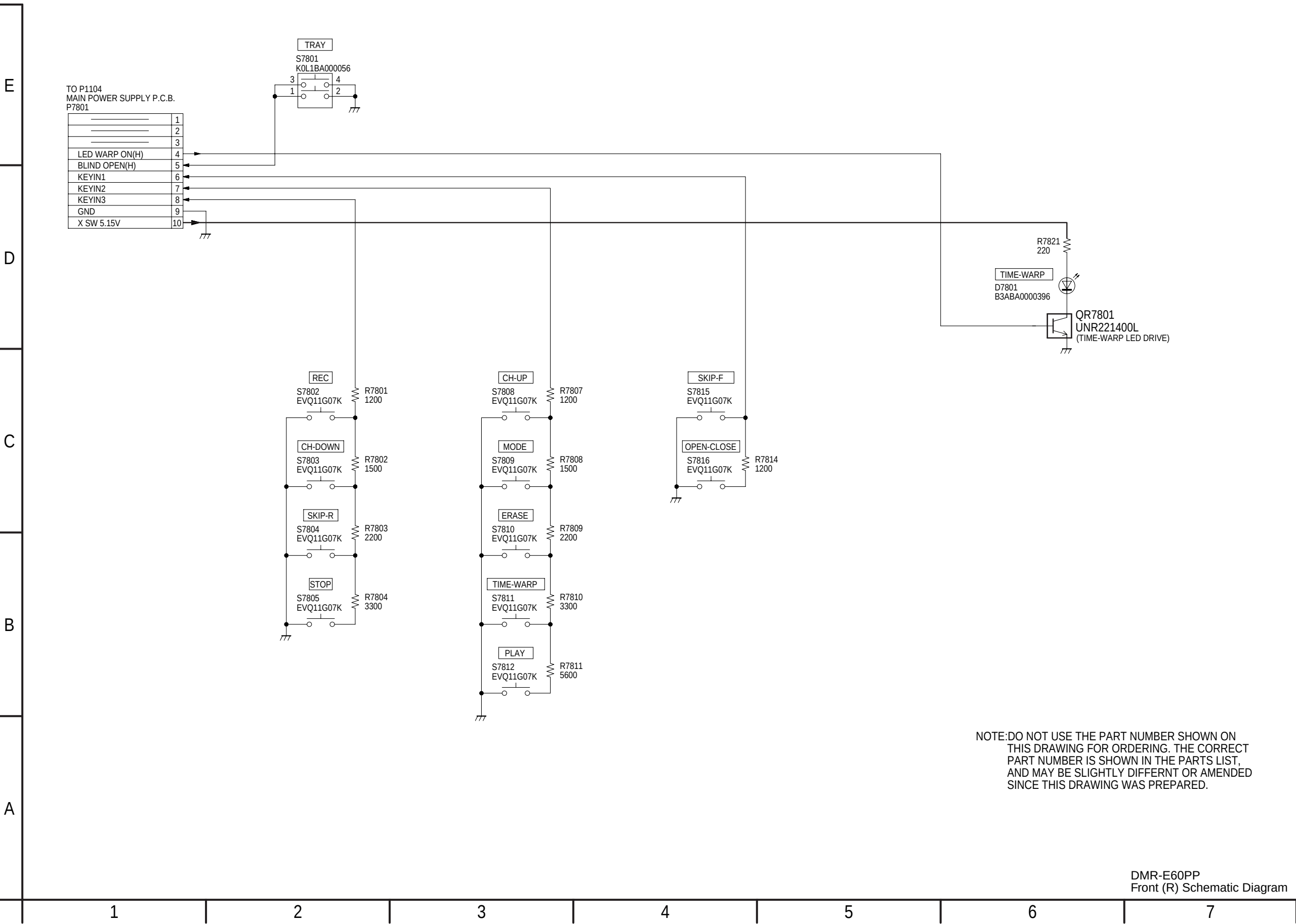
FRONT (R) P.C.B.





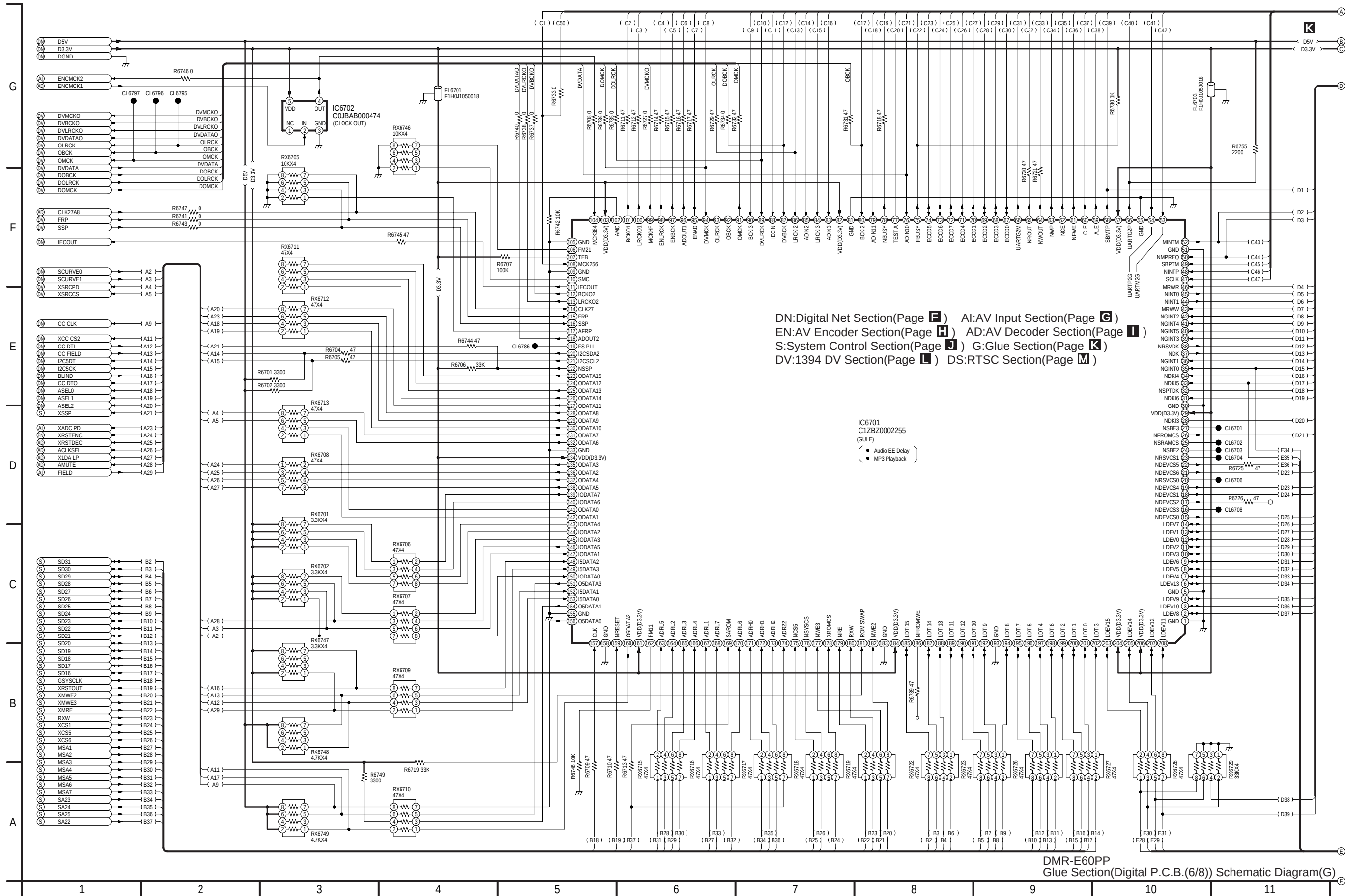
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E60PP
Front (L) Schematic Diagram



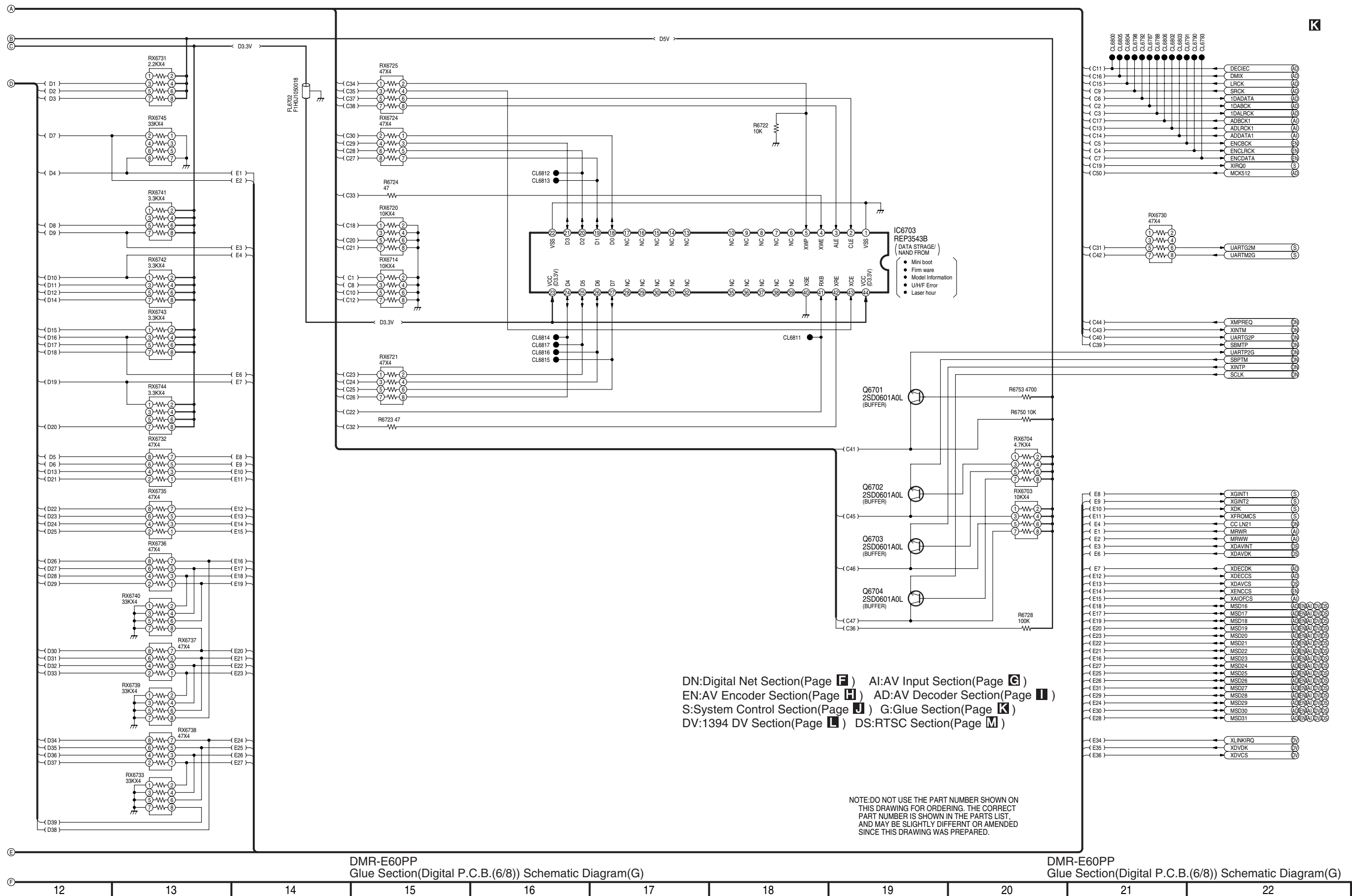
DMR-E60PP
Front (R) Schematic Diagram

Ref No. MODE	QR7801		
	E	C	B
REC	0	3.5	0
PLAY	0	3.5	0
STOP	0	3.5	0



DN:Digital Net Section(Page **F**) AI:AV Input Section(Page **G**)
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DV:1394 DV Section(Page **L**) DS:RTSC Section(Page **M**)

IC6701
C1ZB0002255
(GULE)
● Audio EE Delay
● MP3 Playback



G
F
E
D
C
B
A

P7001	
IR	1
N SW 5V	2
KEYIN2(L)	3
KEYIN2(R)	4
KEYIN3(L)	5
KEYIN3(R)	6
	7
	8
	9
GND	10
L2 IN(R)	11
GND	12
L2 IN(L)	13
GND	14
L2 C SDET	15
LINE 2V IN	16
GND	17
CPN 2C IN	18
GND	19
CPN 2Y IN	20

FRONT (L) P.C.B.

FAN MOTOR	
-----------	--

P1101	
D 1.8V	1
D 1.8V	2
D 3.3V	3
D 3.3V	4
GND	5
X SW 5.15V	6
GND	7
X SW 5.9V	8
GND	9
X SW 13V	10
GND	11
	12
GND	13
P OFF(L)	14
GND	15
P SAVE(L)	16
	17
JC DR P ON(H)	18
	19

P1103	
DR5V	1
DR5V	2
DR12V	3
DR12V	4
GND	5
KEY IN3	6
GND	7
KEY IN2	8
GND	9
KEY IN1	10
BLIND OPEN(H)	11
LED WARP ON(H)	12
	13
	14
	15

P1104	
	1
	2
	3
LED WARP ON(H)	4
BLIND OPEN(H)	5
KEYIN1	6
KEYIN2	7
KEYIN3	8
GND	9
X SW 5.15V	10

MAIN POWER SUPPLY
P.C.B.

P7501	
IR	1
N SW 5V	2
KEYIN2(L)	3
KEYIN2(R)	4
KEYIN3(L)	5
KEYIN3(R)	6
	7
	8
	9
GND	10
L2 IN(R)	11
GND	12
L2 IN(L)	13
GND	14
L2 C SDET	15
LINE 2V IN	16
GND	17
CPN 2C IN	18
GND	19
CPN 2Y IN	20

P7503	
FANPWM	1
GND	2
FANLOCK	3

PP1501	
D 1.8V	1
D 1.8V	2
D 3.3V	3
D 3.3V	4
GND	5
X SW 5.15V	6
GND	7
X SW 5.9V	8
GND	9
X SW 13V	10
GND	11
	12
GND	13
P OFF(L)	14
GND	15
P SAVE(L)	16
	17
JC DR P ON(H)	18
	19

PP1503	
DR 5V	1
DR 5V	2
DR 12V	3
DR 12V	4
GND	5
KEYIN3	6
GND	7
KEYIN2	8
GND	9
KEYIN1	10
BLIND OPEN(H)	11
LED WARP ON(H)	12
	13
	14
	15

PP1502	
DR 12V	1
GND	2
GND	3
DR 5V	4
DR 5V	5
GND	6
GND	7
DR 12V	8

Main P.C.B.	Sub Power Supply Section	Ref.No.1500 SERIES
	Main Net Section	Ref.No.1400/9700 SERIES
	Digital P.C.B. connect circuit	PP9701,PP9702,PP9703
	Video I/O Section	Ref.No.3000/3900/4900 SERIES
	Audio Main Section	Ref.No.4000 SERIES
	Timer Section	Ref.No.7500 SERIES

TO DV INPUT JACK (FRONT PANEL) P37003	
TPA+	1
TPA-	2
TPB+	3
TPB-	4

DV JACK P.C.B.

U/V TUNER	
TU7401	
AGC	1
TU	2
NC	3
SCL	4
SDA	5
NC	6
REG 5V	7
NC	8
BTL	9
NC	10
IF OUT	11
IF IN	12
REG 5V	13
NC	14
GND	15
AFT	16
NC	17
VIDEO OUT	18
NC	19
GND	20
SCL	21
SDA	22
NC	23
NC	24
NC	25
R OUT	26
L OUT	27

MAIN P.C.B.

PP9701	
CPNCIN DM	30
DGND	29
V YIN DM	28
DGND	27
CLAMP PULSE	26
CLAMP DC	25
Y GCA CONT	24
DGND	23
COOUT DM	22
DGND	21
YOUT DM	20
DGND	19
RPROUT DM	18
DGND	17
BPBOUT DM	16
GPYOUT DM	15
DGND	14
	13
DGND	12
	11
DGND	10
	9
DGND	8
	7
DGND	6
I2C5DT	5
I2C5CK	4
SCURVE0	3
SCURVE1	2
C GCA CONT	1

PP9702	
D5V	30
ANA3.3V	29
X SW 5.9V	28
D1.5V	27
D1.8V	26
DGND	25
DGND	24
XDMUTE	23
AUSV	22
MIXLOUT DM	21
AUGND	20
MIXROUT DM	19
AUGND	18
IECOUT	17
AUGND	16
AADC R	15
AUGND	14
AADC L	13
ASEL0	12
ASEL1	11
ASEL2	10
PRGSEL(H)	9
DGND	8
D1.8V	7
D1.8V	6
D1.5V	5
X SW 5.9V	4
ANA3.3V	3
D5V	2
	1

PP9703	
	30
	29
	28
SBMTP	27
SBPTM	26
SCLK	25
	24
XMPREQ	23
XINTM	22
XINTP	21
BLIND OPEN(H)	20
D2.5V	19
	18
	17
D3.3V	16
D3.3V	15
DGND	14
DGND	13
D2.5V	12
CC DATA1	11
XCC CS2	10
CC DATA0	9
CC SCLK	8
	7
CC FIELD	6
CC UN21	5
UARTP2G	4
UARTG2P	3
	2
DGND	1

P37002	
GND	8
TPA+	7
GND	6
TPA-	5
GND	4
TPB+	3
GND	2
TPB-	1

PS9001	
CNPNCIN DM	30
DGND	29
V YIN DM	28
DGND	27
CLAMP PULSE	26
CLAMP DC	25
Y GCA CONT	24
DGND	23
COOUT DM	22
DGND	21
YOUT DM	20
DGND	19
RPROUT DM	18
DGND	17
BPBOUT DM	16
GPYOUT DM	15
DGND	14
RINVOGR THROUGH	13
DGND	12
	11
DGND	10
	9
DGND	8
	7
DGND	6
I2C5DT	5
I2C5CK	4
SCURVE0	3
SCURVE1	2
C GCA CONT	1

PS9002	
D5V	30
ANA3.3V	29
X SW 5.9V	28
D 1.5V	27
D 1.8V	26
DGND	25
DGND	24
XDMUTE	23
AUSV	22
MIXLOUT DM	21
AUGND	20
MIXROUT DM	19
AUGND	18
IECOUT	17
AUGND	16
AADC R	15
AUGND	14
AADC L	13
ASEL0	12
ASEL1	11
ASEL2	10
PRGSEL(H)	9
DGND	8
D1.8V	7
D1.8V	6
D1.5V	5
X SW 5.9V	4
ANA3.3V	3
D5V	2
	1

PS9003	
	30
	29
DVSYNC	28
SBMTP	27
SBPTM	26
SCLK	25
	24
XMPREQ	23
XINTM	22
XINTP	21
BLIND OPEN(H)	20
D2.5V	19
	18
	17
D3.3V	16
D3.3V	15
DGND	14
DGND	13
D2.5V	12
CC DATA1	11
XCC CS2	10
CC DATA0	9
CC SCLK	8
	7
CC FIELD	6
CC UN21	5
UARTP2G	4
UARTG2P	3
	2
DGND	1

PS37001	
GND	1
TPA+	2
GND	3
TPA-	4
GND	5
TPB+	6
GND	7
TPB-	8

DIGITAL P.C.B.

Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B. connect circuit	PS9001,PS9002,PS9003
	AV-Input	Ref.No.3200/4400 SERIES
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	Real Time Stream Control (RTSC)	Ref.No.3500 SERIES

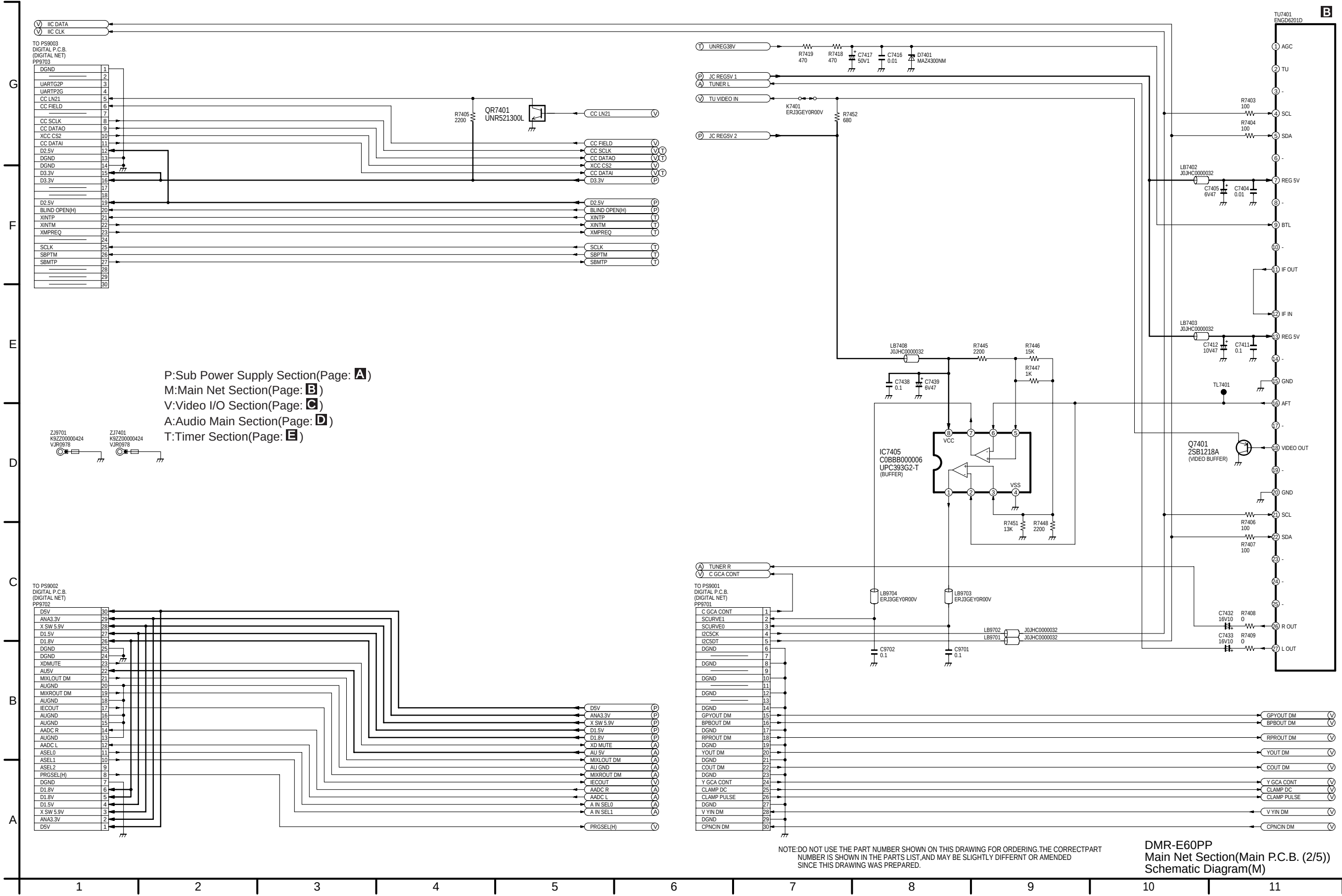
P3503	
GND	70
PCA0	69
PCA2	68
PCA4	67
PCA6	66
PCA8	65
GND	64
STSCNG	63
NREG	62
WP	61
RESET	60
NOE	59
NIOR	58
GND	57
NWAIT	56
D5.9V	55
D5.9V	54
NCE1	53
D5.0V	52
D3.3V	51
GND	50
PCD0	49
PCD1	48
PCD2	47
PCD3	46
PCD4	45
PCD5	44
PCD6	43
PCD7	42
GND	41
SCD	40
SCMD	39
SDAT0	38
SDAT2	37
GND	36
GND	35
PCA1	34
PCA3	33
PCA5	32
PCA7	31
PCA9	30
GND	29
DHDTX	28
NPIWROM	27
NC01	26
NC02	25
NWE	24
NIOW	23
GND	22
READY	21
D5.9V	20
D5.9V	19
NCE2	18
D5.0V	17
D3.3V	16
GND	15
PCD8	14
PCD9	13
PCD10	12
PCD11	11
PCD12	10
PCD13	9
PCD14	8
PCD15	7
GND	6
SCLK	5
SWP	4
SDAT1	3
SDAT3	2
GND	1

FP3501	
RESET-	40
GND	39
DD7	38
DD8	37
DD6	36
DD9	35
DD5	34
DD10	33
DD4	32
DD11	31
DD3	30
DD12	29
DD2	28
DD13	27
DD1	26
DD14	25
DD0	24
DD15	23
GND	22
	21
DMARQ	20
GND	19
DIOW-	18
GND	17
DIOR-	16
GND	15
IORDY	14
	13
DMACK-	12
GND	11
INTRQ	10
	9
DA1	8
	7
DA0	6
DA2	5
CS0-	4
CS1-	3
	2
GND	1

P6801	
GND	70
PCA0	69
PCA2	68
PCA4	67
PCA6	66
PCA8	65
GND	64
STSCNG	63
NREG	62
WP	61
RESET	60
NOE	59
NIOR	58
GND	57
NWAIT	56
D5.9V	55
D5.9V	54
NCE1	53
D5.0V	52
D3.3V	51
GND	50
PCD0	49
PCD1	48
PCD2	47
PCD3	46
PCD4	45
PCD5	44
PCD6	43
PCD7	42
GND	41
SCD	40
SCMD	39
SDAT0	38
SDAT2	37
GND	36
GND	35
PCA1	34
PCA3	33
PCA5	32
PCA7	31
PCA9	30
GND	29
DHDTX	28
NPIWROM	27
NC01	26
NC02	25
NWE	24
NIOW	23
GND	22
READY	21
D5.9V	20
D5.9V	19
NCE2	18
D5.0V	17
D3.3V	16
GND	15
PCD8	14
PCD9	13
PCD10	12
PCD11	11
PCD12	10
PCD13	9
PCD14	8
PCD15	7
GND	6
SCLK	5
SWP	4
SDAT1	3
SDAT3	2
GND	1

DVD RAM DRIVE

FP603	
RESET-	1
GND	2
DD7	3
DD8	4
DD6	5
DD9	6
DD5	7
DD10	8
DD4	9
DD11	10
DD3	11
DD12	12
DD2	13
DD13	14
DD1	15
DD14	16
DD0	17
DD15	18
GND	19
20	
DMARQ	21
GND	22
DIOW-	23
GND	24
DIOR-	25
GND	26
IORDY	27
28	
DMACK-	29
GND	30
INTRQ	31
32	
DA1	33
34	
DA0	35
DA2	36
CS0-	37
CS1-	38
39	
GND	40



P:Sub Power Supply Section(Page: **A**)
M:Main Net Section(Page: **B**)
V:Video I/O Section(Page: **C**)
A:Audio Main Section(Page: **D**)
T:Timer Section(Page: **E**)

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DMR-E60PP
Main Net Section(Main P.C.B. (2/5))
Schematic Diagram(M)

